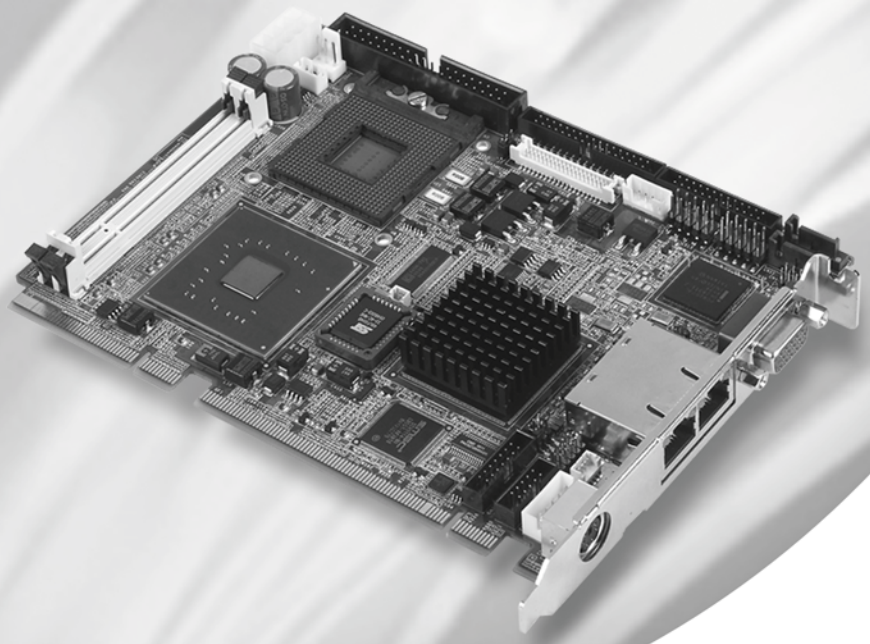
Slot CPU Cards

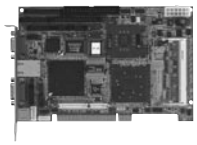
4

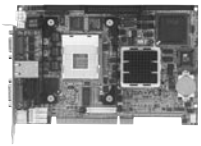


PCIe-bus Slot CPU Cards		
PCE-3150 *NEW*	PCI Express Intel Pentium M/Intel Celeron M Half-sized SBC with VGA/LCD/LVDS/Giga LAN/USB 2.0 and SSD	4-6
PCI-bus Slot CPU Cards		
PCI-6886	PCI Intel Celeron M Half-sized SBC with VGA/LCD/LVDS/LAN/USB 2.0/SATA and SSD	4-8
PCI-6882	PCI Intel Pentium 4/Celeron D/Celeron Half-sized SBC with VGA/LVDS/LAN/USB/TV-out/SSD/SATA	4-10
PCI-6881	PCI Intel Pentium M/Intel Celeron M Half-sized SBC with VGA/LCD/LVDS/Giga LAN/USB 2.0 and SSD	4-12
PCI-6880	PCI Intel Pentium M/Intel Celeron M Half-sized SBC with VGA/LCD/LVDS/Giga LAN/USB 2.0/SATA and SSD	4-14
PCI-6872	PCI Socket 370 Slot-PC, VGA/LCD/LVDS/LAN/CFC with Optional 2nd LAN	4-16
PCI-6870	PCI Socket 370 Slot-PC SBC,VGA/LAN/CFC II	4-18
ISA-bus Slot CPU Cards		
PCA-6780 *NEW*	ISA half-sized SBC, ULV Celeron M, VGA/LCD/LAN/CFC/USB	4-20
PCA-6775 *NEW*	ISA VIA Slot-PC SBC, with VGA/LCD/LAN/SSD/3LAN	4-22
PCA-6774	ISA Socket 370 Slot-PC SBC, VGA/LCD/LVDS/LAN/CFC/Optional Second LAN	4-24
PCA-6773	ISA based Slot-PC w/Intel Celeron ULV400, 650/Pentium LV800, 933, supporting VGA/LVDS/LAN/CFC and PC/104	4-26
PCA-6741	ISA Consumer II Slot-PC SBC, 133 MHz CPU/32 MB/VGA/LAN/DOC and PC/104	4-28
Chasiss, Backplane & Accessories		
PCA-6740	ISA Elite Slot-PC SBC, with 133 MHzCPU/32 MB/VGA/LCD/LAN/DOC and PC/104	4-30
IPC-644	4-slot Ultra-Compact Wallmount/Desktop Chassis with 150 W ATX Power Supply	4-32
IPC-6806	6-slot Desktop/Wallmount Chassis with 1U Power Supply	4-34
IPC-6606	6-slot Desktop/Wallmount Chassis with PS/2 Power Supply	4-36
PCA-6108	8-slot ISA-bus Passive Backplane	4-38
PCA-6106	6-slot ISA-bus Passive Backplane	4-38
PCA-6104	4-slot ISA/PCI-bus Passive Backplane	4-38
PCA-6105	5-slot PCI-bus Passive Backplane	4-38

Slot CPU Cards

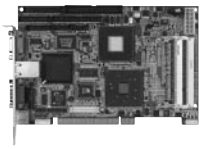
NEW

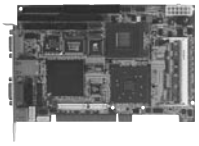


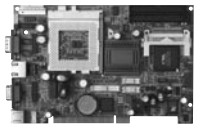


Model Name	PCE-3150	PCI-6886	PCI-6882
Form Factor	PCIe Slot CPU Card	PCI Slot CPU card	PCI Slot CPU card
Front Side Bus Speed	533/667 MHz	400 MHz	400/533 MHz
CPU Level	Pentium M/Celeron M	Celeron M	Pentium 4/Celeron D/Celeron
CPU Socket	Socket 478	CPU on board	Socket 478
CPU Frequency	Up to 2.16 GHz	Up to 1 GHz	Up to 3.06 GHz
System Chipset	Intel 945GM+ICH7M	Intel 852GM+ 6300ESB	Intel 852GME+ICH4
Max. DRAM	4 GB (2 x SODIMM)	2 GB (2 x SODIMM)	2 GB (2 x SODIMM)
Memory Chip Type	DDR2	DDR	DDR
2nd Cache Memory	On Processor	-	On Processor
BIOS	Award 4 Mbit	Award 4 Mbit	Award 4 Mbit
Watchdog Timer	255 levels	255 levels	255 levels
SSD	CFC	CFC	CFC
Graphic Controller	Intel 945GM	Intel 852GM	Intel 852GME
VGA/LCD	Yes/36-bit LVDS	Yes/36-bit LVDS/DVI	Yes/36-bit LVDS
Ethernet	10/100M Intel 82551 or 10/100/1000M Intel 82541PI/82573L	10/100M Intel 82551 or 10/100/1000M Intel 82541PI	10/100M Intel 82551 or 10/100/1000M Intel 82541PI
Audio	ICH7M	6300ESB	ICH4
IDE	2 x EIDE	2 x EIDE	2 x EIDE
Floppy Disk Drive	1 Drive	1 Drive	1 Drive
SATA	2 x SATA	2 x SATA	2 x SATA
Parallel	1 x SPP/EPP/ECP	1 x SPP/EPP/ECP	1 x SPP/EPP/ECP
Serial	1 x RS-232/422/485, 1 x RS-232	1 x RS-232/422/485, 3 x RS-232	1 x RS-232/422/485, 3 x RS-232
USB	4 x USB 2.0	4 x USB 2.0	4 x USB 2.0
IrDA	-	-	115 kbps
Expansion Bus	PCI Express	PCI	PCI
Power Management	ACPI/APM 1.2	ACPI/APM 1.2	ACPI/APM1.2
Operating Temperature	0 ~ 60° C (32 ~ 140° F)	0 ~ 60° C (32 ~ 140° F)	0 ~ 60° C (32 ~ 140° F)
Dimensions	168 x 126	185 x 122	185 x 122
EMI Certification	FCC/CE	FCC/CE	FCC/CE

All product specifications are subject to change without notice

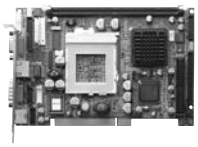




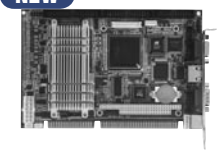


Model Name	PCI-6881	PCI-6880	PCI-6872
Form Factor	PCI Slot CPU card	PCI Slot CPU card	PCI Slot CPU Card
Front Side Bus Speed	400 MHz	400 MHz	133/100 MHz
CPU Level	Pentium M/Celeron M	Pentium M/Celeron M	Pentium III/Celeron/VIA
CPU Socket	Socket 478 or onboard	Socket 478 or onboard	Socket 370
CPU Frequency	Up to 1.8 GHz	Up to 1.8 GHz	Up to 1.26 GHz
System Chipset	Intel 855GME+ICH4	Intel 855GME + 6300ESB	VIA VT8606+ VT82C686B
Max. DRAM	2 GB (2 x SODIMM)	2 GB (2 x SODIMM)	Up to 512 MB (1 x SODIMM)
Memory Chip Type	DDR	DDR	SDRAM
2nd Cache Memory	On Processor	On processor	64 KB on processor
BIOS	Award 4 Mbit	Award 4 Mbit	Award 2 Mbit
Watchdog Timer	255 levels	255 levels	62 levels 1 ~ 62 sec.
SSD	CFC	CFC	CFC
Graphic Controller	Intel 855GME	Intel 855GME	VIA TwisterT
VGA/LCD	Yes/36-bit LVDS	Yes/36-bit LVDS/DVI	Yes/36-bit TTL&LVDS
Ethernet	10/100M Intel 82551 or 10/100/1000M Intel 82541PI	10/100M Intel 82551 or 10/100/1000M Intel 82541PI	10/100 Mbps Intel 82551
Audio	ICH4	6300ESB	-
IDE	2 x EIDE	2 x EIDE	2 x EIDE (Ultra DMA 100/33)
Floppy Disk Drive	1 Drive	1 Drive	1 Drive
SATA	-	2 x SATA	-
Parallel	1 x SPP/EPP/ECP	1 x SPP/EPP/ECP	1 x SPP/EPP/ECP
Serial	1 x RS-232/422/485, 3 x RS-232	1 x RS-232/422/485, 3 x RS-232	1 x RS-232/422/485, 1 x RS-232
USB	4 x USB 2.0	4 x USB 2.0	4 x USB 2.0
IrDA	-	-	-
Expansion Bus	PCI	PCI	PCI
Power Management	ACPI/APM 1.2	ACPI/APM 1.2	APM 1.2
Operating Temperature	0 ~ 60° C (32 ~ 140° F)	0 ~ 60° C (32 ~ 140° F)	0 ~ 60° C (32 ~ 140° F)
Dimensions	185 x 122	185 x 122	185 x 122
EMI Certification	FCC/CE	FCC/CE	FCC/CE

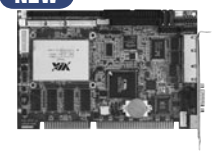
Slot CPU Cards



NEW

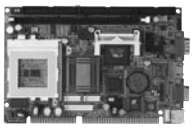
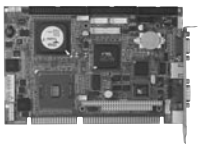
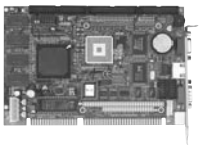


NEW



Model Name	PCI-6870	PCA-6780	PCA-6775
Form Factor	PCI Slot CPU Card	ISA Slot CPU Card	ISA Slot CPU Card
Front Side Bus Speed	133/100 MHz	400 MHz	133 MHz
CPU Level	Pentium III/Celeron	Celeron M	VIA Mark
CPU Socket	Socket 370	CPU on board	CPU on board
CPU Frequency	Up to 1.26 GHz	Up to 1 GHz	533/800 MHz
System Chipset	Intel 815E+ICH2	Intel 852GM+ICH4	VIA Mark+ VT82C686B
Max. DRAM	Up to 512 MB (1 x DIMM)	Up to 1 GB (1 x SODIMM)	Up to 512 MB (1 x SODIMM)
Memory Chip Type	SDRAM	DDR	SDRAM
2nd Cache Memory	On processor	-	64 KB on processor
BIOS	Award 2 Mbit	Award 4 Mbit	Award 2 Mbit
Watchdog Timer	15 sec. ~ 127 min., Step 30 sec.	255 levels	255 levels
SSD	CFC	CFC	CFC
Graphic Controller	VGA only (815E)	Intel 852GM	VIA Mark
VGA/LCD	Yes/No	Yes/36-bit LVDS	Yes/36-bit LVDS
Ethernet	10/100 Mbps Intel 82562ET	10/100M Intel 82551 or Realtek 8100C	10/100M Realtek 8100C or 10/100/1000M Realtek 8110SC
Audio	ICH2	ICH4	VT82C686B
IDE	2 x EIDE (Ultra DMA 100/33)	2 x EIDE (Ultra DMA 100/33)	1 x EIDE (Ultra DMA 100/33)
Floppy Disk Drive	1 Drive	1 Drive	1 Drive
SATA	-	-	2 x SATA
Parallel	1 x SPP/EPP/ECP	1 x SPP/EPP/ECP	1 x SPP/EPP/ECP
Serial	1 x RS-232/422/485, 1 x RS-232	1 x RS-232/422/485, 1 x RS-232	1 x RS-232/422/485, 1 x RS-232
USB	2 x USB 1.1 x 2	4 x USB 2.0	4 x USB 1.1
IrDA	115 kbps	115 kbps	-
Expansion Bus	PCI	ISA, PC/104	ISA
Power Management	APM 1.1	APM 1.2	APM 1.2
Operating Temperature	0 ~ 60° C (32 ~ 140° F)	0 ~ 60° C (32 ~ 140° F)	0 ~ 60° C (32 ~ 140° F)
Dimensions	185 x 122	185 x 122	185 x 122
EMI Certification	FCC/CE	FCC/CE	FCC/CE

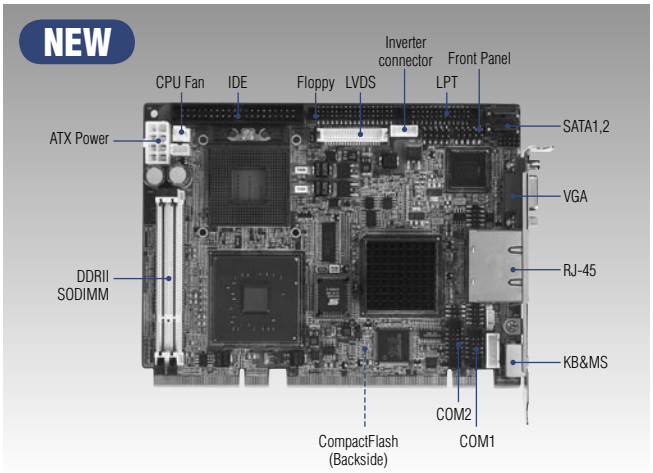
All product specifications are subject to change without notice

Model Name	PCA-6774	PCA-6773	PCA-6741	PCA-6740
Form Factor	ISA Slot CPU Card	ISA slot CPU board	ISA Slot CPU Card	ISA Slot CPU Card
Front Side Bus Speed	133/100 MHz	133/100 MHz	33 MHz	33 MHz
CPU Level	Pentium III/Celeron	Pentium III ULV	STPC Consumer II	STPC Elite
CPU Socket	Socket 370	CPU on board	CPU on board	CPU on board
CPU Frequency	Up to 1.26 GHz	400/650/933 MHz	133 MHz	133 MHz
System Chipset	VIA VT8606+ VT82C686B	VIA VT8606+ VT82C686B	STPC Consumer II	STPC Elite
Max. DRAM	Up to 512 MB (1 x DIMM)	Up to 512 MB (1 x SODIMM)	32 MB on board	32 MB on board
Memory Chip Type	SDRAM	SDRAM	SDRAM	SDRAM
2nd Cache Memory	On processor	On processor	On processor	On processor
BIOS	Award 2 Mbit	Award 2 Mbit	Award 2 Mbit	Award 2 Mbit
Watchdog Timer	62 levels 1 ~ 62 sec.	62 levels 1 ~ 62 sec.	62 levels 1 ~ 62 sec.	62 levels 1 ~ 62 sec.
SSD	CFC	CFC	DOC/CFC (Optional)	DOC/CFC (Optional)
Graphic Controller	VIA TwisterT	VIA TwisterT	STPC Consumer II (Only for VGA)	SMI 712
VGA/LCD	Yes/36-bit TTL&LVDS	Yes/36-bit TTL&LVDS	Yes/No	Yes/36-bit TTL
Ethernet	Intel 82551/82559/82540	10/100Mbps RTL 8139C/ Intel 82551	10/100 Mbps RTL 8139C	10/100 Mbps RTL 8139C
Audio	-	VT82C686B	-	-
IDE	2 x EIDE (Ultra DMA 100/33)	1 x EIDE (Ultra DMA 100)	1 x EIDE (PIO Mode 3, 4)	1 x EIDE (PIO Mode 3, 4)
Floppy Disk Drive	1 Drive	1 Drive	1 Drive	1 Drive
SATA	-	-	-	-
Parallel	1 x SPP/EPP/ECP	1 x SPP/EPP/ECP	1 x SPP/EPP/ECP	1 x SPP/EPP/ECP
Serial	1 x RS-232/422/485, 1 x RS-232	2 x RS-232	F version: 1 x RS-232, 1 x RS-232/422/485 L version: 2 x RS-232	F version: 1 x RS-232, 1 x RS-232/422/485 L version: 2 x RS-232
USB	4 x USB 1.1	4 x USB 1.1	-	-
IrDA	115 kbps	115 kbps	115 kbps	115 kbps
Expansion Bus	ISA	ISA, PC/104	ISA, PC/104	ISA, PC/104
Power Management	APM 1.2	APM1.2	APM	APM
Operating Temperature	0 ~ 60° C (32 ~ 140° F)	0 ~ 60° C (32 ~ 140° F)	0 ~ 60° C (32 ~ 140° F)	0 ~ 60° C (32 ~ 140° F)
Dimensions	185 x 122	185 x 122	185 x 122	185 x 122
EMI Certification	FCC/CE	FCC/CE	FCC/CE	FCC/CE

PCE-3150

PCI Express Intel® Pentium® M/Intel Celeron® M Half-sized SBC with VGA/ LCD/LVDS/Giga LAN/USB 2.0 and SSD



Features

- PICMG1.3 compliance Intel® Core Duo/Core Solo/Pentium® M/Intel Celeron® M Processor
- One PCIe x16 and one PCIe x4 links to backplane
- Supports 533/667 MHz Front Side Bus
- Supports 533/667 MHz DDRII SDRAM
- Supports Dual 1000Base-T Ethernet on board
- Supports up to 2 Channel 36-bit LVDS LCD
- Supports four USB 2.0 ports
- Supports Enhanced Intel SpeedStep technology

Specifications

General

CPU	Intel Core Duo/Core Solo/Pentium® M/Celeron® M Processor up to 2.16 GHz
2nd Cache Memory	depends on processor
System Chipset	Intel 945GM+ICH7M
BIOS	AWARD® 4 Mbit Flash BIOS
System Memory	2 x 200 pin SODIMM x 2, support DDRII 533/667MHz SDRAM up to 4 GB
Power Management	APM 1.2, ACPI supported
SSD	Supports CompactFlash® Card Type I/II
Watch Dog Timer	0 ~ 255 level
Expansion Interface	1 PCIe x16 and 1 PCIe x4 links to backplane
Battery	Lithium 3 V/196 mAH

I/O

I/O Interface	2 x EIDE (2 x Ultra DMA100), 1 x FDD, 1 x K/B, 1x Mouse, 1 x RS-232/422/485, 1 x RS-232, 1 x LPT, 2 x SATA
USB	4 x USB ports, USB 2.0 compliant
Audio	Supports AC97 Audio with optional PCM-231A-00A1E
IrDA	N/A
GPIO	8-bit general purpose input/output
I/O Expansion	PCI Express gold finger

Ethernet

Chipset	Intel 82541PI+82573L
Speed	10/100/1000Base-T
Interface	2 x RJ-45
Standard	IEEE 802.3 z/ab (1000Base-T) protocol compatible

Display

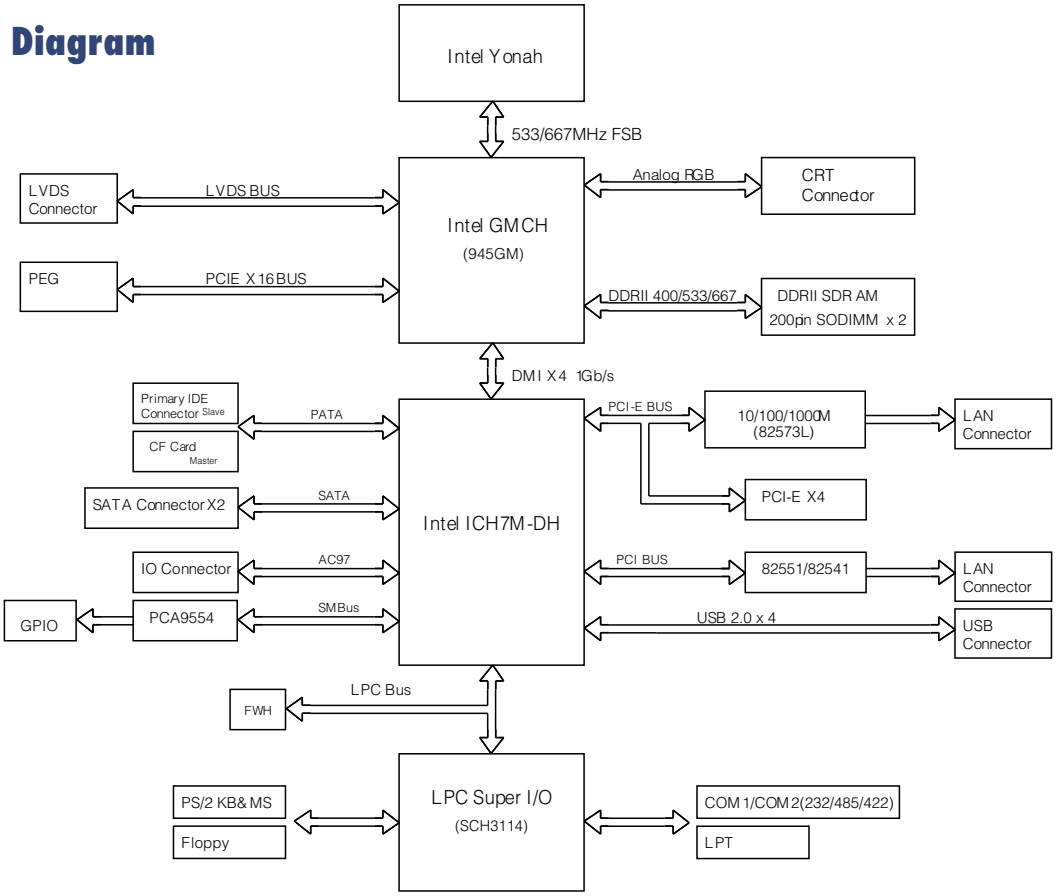
Chipset	Intel 945GM integrated GMA 950 graphics core
Memory Size	Dynamic Video Memory Technology (DVMT) 3.0 supports up to 224 MB of video memory
Resolution	CRT Mode: up to 2048 x 1536 @ 75 Hz LVDS Mode: up to 1600 x 1200 @ 36 bpp, up to UXGA panel resolution with frequency range from 25 MHz to 112 MHz
LCD Interface	2 Channel LVDS (36-bit)
LVDS Interface	Hirose connector supports dual channel LVDS panel
TV-Out	N/A
Dual Independent Display	CRT + LVDS

Mechanical and Environmental

Dimension (L x W)	126 x 165 mm
Weight	0.27 kg (weight of total package)
Operating Temperature	0 ~ 60° C (32 ~ 140° F), operation
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Power Supply Voltage	+5 V, +12 V ±5%
Power Consumption	Max: 6 A @ 5 V, 0.5 A @ 12 V, Typical: 5.2 A @ 5 V 0.25 A @ 12 V (w/Intel Core Duo 2.16 GHz)

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCE-3150 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable** (p/n:1701400452)
- **1 x FDD Cable (600 mm)** (p/n:1701340603)
- **1 x Parallel Port Cable** (p/n:1700260250)
- **1 x Power Cable** (p/n:1700000265)
- **Mini Jumper** (p/n:1653302122)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

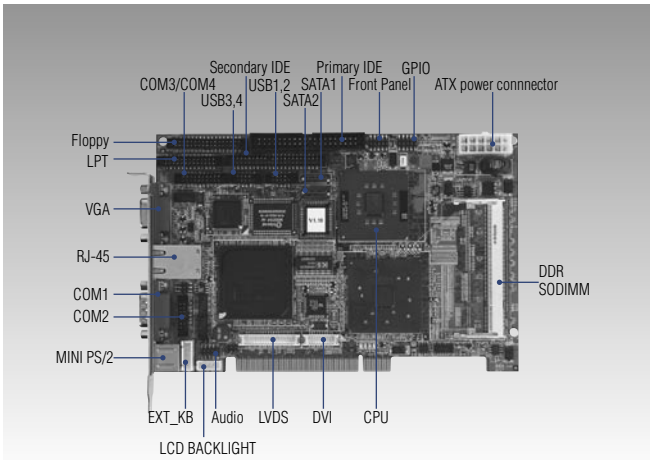
- **PCE-3B06-00** 3 PCIe x1, 1 PCIe x4, 1 PCIe x16 slot backplane
- **PCE-3B06-03** 3 PCI, 1 PCIe x1, 1 PCIe x16 slot backplane
- **1703100260** USB cable adapter (2.00 mm)
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter
- **PCM-231A-00A1E** Audio module with Line-in, Line-out, Mic
- **1701140201** COM2 cable (2.00 mm)

Ordering Information

Standard	CRT	LVDS	Giga	SATA	USB	RS-232	RS-232/422/485	LPT	GPIO	CF
PCE-3150F-00A1E	1	1	2	2	4	1	1	1	8-bit	Type I/II

PCI-6886

PCI Intel® Celeron® M Half-sized SBC with VGA/LCD/LVDS/LAN/USB 2.0/SATA and SSD



Features

- Embedded new generation Intel® Celeron® M Processor
- Supports 400 MHz Front Side Bus
- Supports 200 MHz, 266 MHz DDR SDRAM
- Supports up to 1000Base-T Ethernet on board
- Supports up to 2 Channel 36 bits LVDS for LCD
- Supports four USB 2.0 ports
- Supports two SATA ports

RoHS CE FCC

Specifications

General

- **CPU** Embedded Intel Celeron M Processor, up to 1 GHz
- **2nd Cache Memory** N/A
- **System Chipset** Intel 852GM/GMCH + 6300ESB
- **BIOS** AWARD® 4 Mbit Flash BIOS
- **System Memory** 2 x 200-pin DDR SODIMM, supports DDR up to 2 GB
- **Power Management** APM 1.2, ACPI supported
- **SSD** Supports CompactFlash® Card Type I/II (Share 2nd IDE channel)
- **Watch Dog Timer** 0 ~ 255 sec, System reset
- **Expansion Interface** 1 x 32-bit PCI slot
- **Battery** Lithium 3 V/196 mAH

I/O

- **I/O Interface** 2 x IDE, 1 x FDD, 1 x K/B, 1 x Mouse, 2 x SATA 1 x RS-232/422/485, 3 x RS-232, 1 x LPT
- **USB** 4 x USB ports, USB 2.0 compliant
- **Audio** Supports AC97 Audio with optional PCM-231A-00A1
- **IrDA** N/A
- **GPIO** 8-bit general purpose input/output
- **I/O Expansion** DVI, PCI

Ethernet

- **Chipset** Intel 82541PI (Gigabit), Intel 82551ER/82551QM (optional)
- **Speed** 10/100 Mbps, 10/100/1000 Mbps
- **Interface** 1 x RJ-45
- **Standard** IEEE 802.3 z/ab (1000Base-T) or IEEE 802.3u (100 Base-T) protocol compatible
- **Built-in Boot ROM** 82541PI and 82551QM (optional)

Display

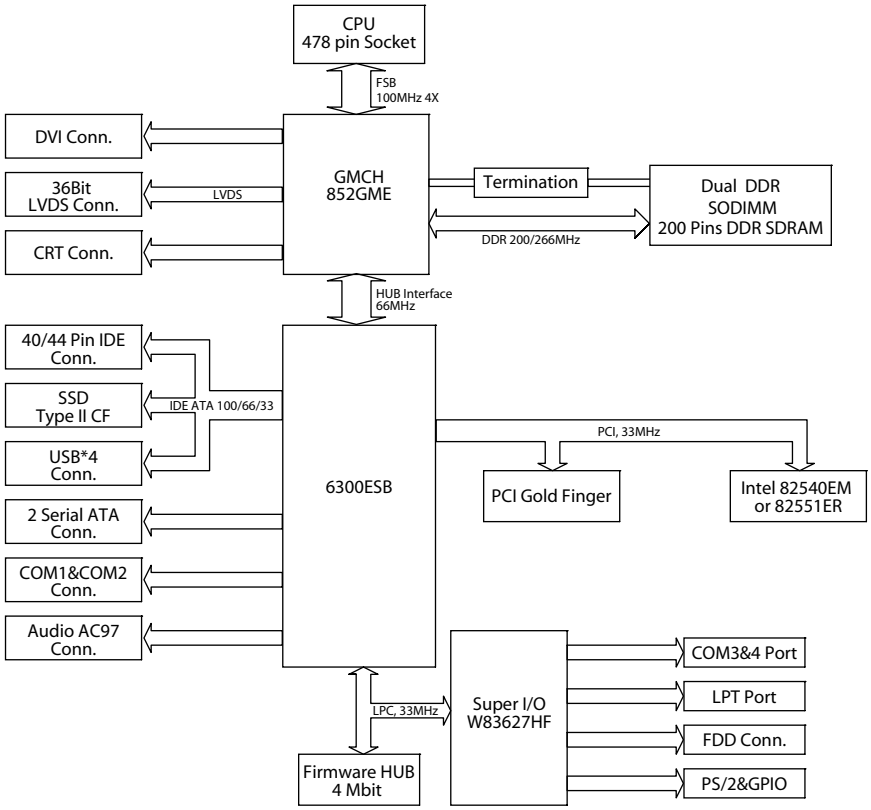
- **Chipset** Intel 852GM chip integrated. (Extreme Graphics 2)
- **Memory Size** Optimized Shared Memory Architecture, supports up to 64 MB frame buffer using system memory
- **Resolution** CRT display mode: up to 1600 x 1200 @ 32 bpp (85 Hz) LVDS display mode: up to UXGA panel resolution with frequency range from 25 MHz to 112 MHz
- **LCD Interface** 2 Channel LVDS (36-bit)
- **LVDS Interface** Hirose connector supports dual channel LVDS panel
- **TV-Out** N/A
- **Dual Independent Display** CRT + LVDS, CRT + DVI (only operates under Windows), LVDS + DVI (only operates under Windows)

Mechanical and Environmental

- **Dimension (L x W)** 185 x 122 mm (7.3" x 4.8")
- **Weight** 0.27 kg (weight of total package)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F), operation
- **Operating Humidity** 0% ~ 90% relative humidity, non-condensing
- **Power Supply Voltage** +5 V, +5 V STB and +12 V
- **Power Consumption** Max: 2.42 A @ 5 V, 0.32 A @ 12 V, (w/Celeron M 600 MHz with no L2 cache + 512 MB) Typical: 1.91 A @ 5 V, 0.31 A @ 12 V, (w/Celeron M 600 MHz with no L2 cache + 512 MB)

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCI-6886 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable** (p/n:1701400452)
- **1 x FDD Cable (600 mm)** (p/n:1701340603)
- **1 x Parallel Port Cable** (p/n:1700260250)
- **1 x Power Cable** (p/n:1700000265)
- **1 x ATX Feature Cable** (p/n:1700001276)
- **Mini Jumper** (p/n:1653302122)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

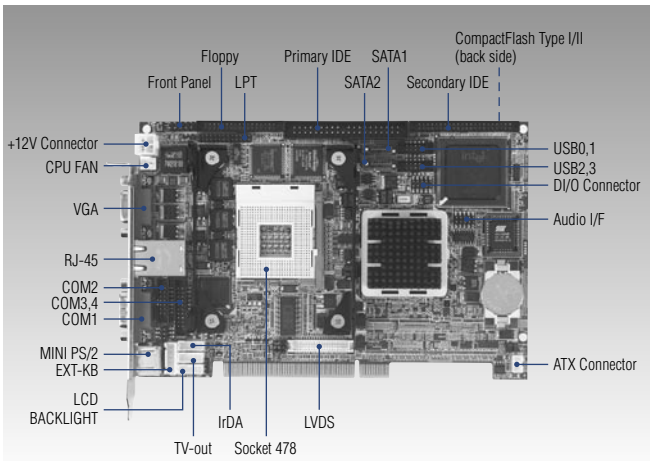
- **IPC-644P4-15ZE** 4-slot PCI chassis w/backplane & 150 W power supply
- **IPC-6806BP-20ZBE** PCI chassis with 200 W power supply
- **IPC-6606P5-30ZE** 5-slot PCI chassis w/backplane & 200 W power supply
- **PCA-6104P4-0B2E** 4-slot PCI backplane
- **PCA-6105P5-0B2E** 5-slot PCI backplane
- **1703100260** USB cable adapter (2.00 mm)
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter
- **PCM-231A-00A1E** Audio module with Line-in, Line-out, Mic
- **1701140201** COM2 cable (2.00 mm)
- **1700001166** COM3 & COM4 cable with bracket (2.00 mm)

Ordering Information

Standard	CRT	LVDS	DVI	10/100	Giga	SATA	USB	RS-232	RS-232/422/485	LPT	GPIO	CF
PCI-6886F-M0A1E	1	1	1	1	--	2	4	3	1	1	8-bit	Type I/II
PCI-6886FG-M0A1E	1	1	1	--	1	2	4	3	1	1	8-bit	Type I/II
PCI-6886F-S0A1E	1	1	1	1	--	2	4	3	1	1	8-bit	Type I/II
PCI-6886FG-S0A1E	1	1	1	--	1	2	4	3	1	1	8-bit	Type I/II

PCI-6882

PCI Intel® Pentium® 4/Celeron® D/Celeron Half-sized SBC with VGA/LVDS/LAN/USB/TV-out/ SSD/SATA



Features

- Embedded Intel® Pentium® 4/Celeron® D/Celeron Processor
- Supports 400/533 MHz Front Side Bus
- Supports 200 MHz, 266 MHz and 333 MHz DDR SDRAM
- Supports up to 1000Base-T Ethernet on board
- Supports up to 2 Channel 36 bits LVDS for LCD
- Supports four USB 2.0 ports
- Supports two SATA ports

RoHS CE FCC

Specifications

General

- **CPU** — Embedded Intel Pentium 4 processor, up to 3.06 GHz Celeron D/Celeron process, up to 2.8 GHz
- **2nd Cache Memory** — 512 KB on Pentium 4
256 KB on Celeron D
128 KB on Celeron
- **System Chipset** — Intel 852GME + ICH4
- **BIOS** — AWARD 4 Mbit Flash BIOS
- **System Memory** — 2 x 200 pin DDR SODIMM x 2, supports non-ECC DDR up to 2 GB
- **Power Management** — APM 1.2, ACPI 2.0 supported
- **SSD** — Supports CompactFlash® Card Type I/II
- **Watch Dog Timer** — 0 ~ 255 sec., System reset
- **Expansion Interface** — 32-bit PCI slot
- **Battery** — Lithium 3 V/196 mAH

I/O

- **I/O Interface** — 2 x IDE, 1 x FDD, 1 x K/B, 1 x Mouse, 2 x SATA
1 x RS-232/422/485, 3 x RS-232, 1 x LPT
- **USB** — 4 x USB ports, USB 2.0 compliant
- **Audio** — Supports AC97 Audio with optional PCM-231A-00A1E
- **IrDA** — 115 kbps, IrDA 1.1 compliant
- **GPIO** — 8-bit general purpose input/output (optional)
- **I/O Expansion** — TV-out, PCI

Ethernet

- **Chipset** — Intel 82541PI (Gigabit), Intel 82551ER/82551QM (optional)
- **Speed** — 10/100Base-T, 10/100/1000Base-T
- **Interface** — 1 x RJ-45
- **Standard** — IEEE 802.3 z/ab (1000Base-T) or IEEE 802.3u (100 Base-T) protocol compatible
- **Built-in Boot ROM** — 82541PI, with 82551QM can have this function by optional

Display

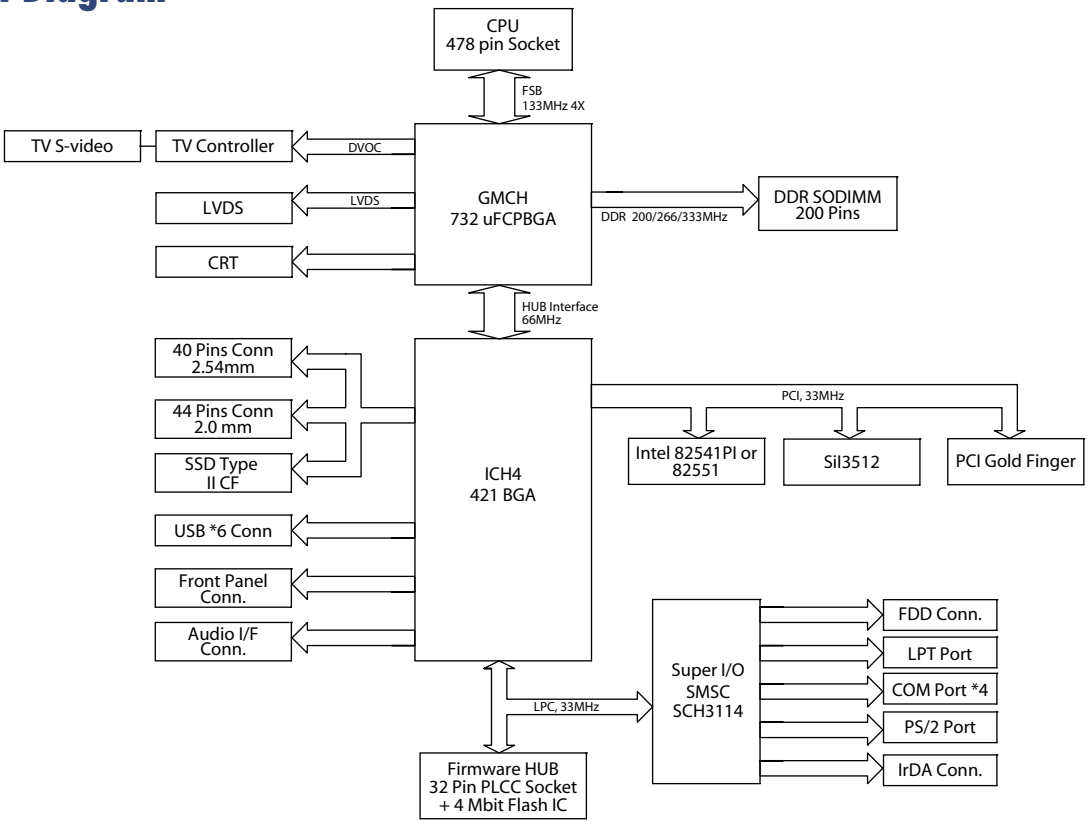
- **Chipset** — Intel 852GME chip integrated.
- **Memory Size** — Optimized Shared Memory Architecture, supports up to 64 MB frame buffer using system memory
- **Resolution** — CRT Mode: up to 1920 x 1440 @ 60 Hz
LVDS Mode: up to 1280 x 1024 @ 36bpp, up to UXGA panel resolution with frequency range from 25 MHz to 112 MHz
- **LCD Interface** — 2 Channel LVDS (36-bit)
- **LVDS Interface** — Hirose connector supports dual channel LVDS panel
- **TV-Out** — Supports NTSC and PAL video standard, supports composite, s-video or AV output, graphic resolution up to 1024 x 768 pixels (optional)
- **Dual Independent Display:** CRT + LVDS, LVDS + TV-out, CRT + TV-out, LVDS + LVDS (operate under Windows, Linux)

Mechanical and Environmental

- **Dimension (L x W)** — 185 x 122 mm (7.3" x 4.8")
- **Weight** — 0.27 kg (weight of total package)
- **Operating Temperature** — 0 ~ 60° C (32 ~ 140° F), operation
- **Operating Humidity** — 0% ~ 90% relative humidity, non-condensing
- **Power Supply Voltage** — +5 V, +5 V STB and +12 V
- **Power Consumption** — Max: 7.8 A @ +12 V, 2.4 A @ +5V (w/Pentium 4 3.06 GHz + 1 GB);
Typical: 2.3 A @ +12 V, 2.3 A @ +5 V (w/Pentium 4 3.06 GHz + 1 GB);

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCI-6882 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable** (p/n:1701400452)
- **1 x FDD Cable (600 mm)** (p/n:1701340603)
- **1 x Parallel Port Cable** (p/n:1700260250)
- **1 x Power Cable** (p/n:1700000265)
- **1 x Mini Jumper** (p/n:1653302122)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

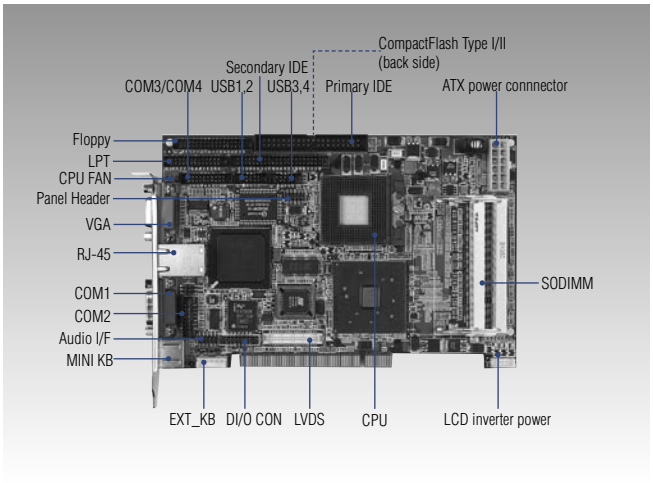
- **IPC-644P4-15ZE** 4-slot PCI chassis w/backplane & 150 W power supply
- **IPC-6806BP-20ZBE** PCI chassis with 200 W power supply
- **IPC-6606P5-30ZE** 5-slot PCI chassis w/backplane & 200 W power supply
- **PCA-6104P4-0B2E** 4-slot PCI backplane
- **PCA-6105P5-0B2E** 5-slot PCI backplane
- **1703100260** USB cable adapter (2.00 mm)
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter
- **PCM-231A-00A1E** Audio module with Line-in, Line-out, Mic
- **1701140201** COM2 cable (2.00 mm)
- **1700001166** COM3 & COM4 cable with bracket (2.00 mm)

Ordering Information

Standard	CRT	LVDS	TV out	10/100	Giga	SATA	USB	RS-232	RS-232/422/485	LPT	GPIO	IrDA	CF
PCI-6882F-00A1E	1	1	optional	1	--	2	4	3	1	1	8-bit (optional)	115 kbps	Type I/II
PCI-6882FG-00A1E	1	1	optional	0	1	2	4	3	1	1	8-bit (optional)	115 kbps	Type I/II

PCI-6881

PCI Intel® Pentium® M/Intel Celeron® M Half-sized SBC with VGA/LCD/LVDS/Giga LAN/ USB 2.0 and SSD



Features

- Embedded new generation Intel® Pentium® M/Intel Celeron® M Processor
- Fanless operation @ 0 ~ 60°C (Celeron M 600 MHz/Pentium 1.1 GHz)
- Supports 400 MHz Front Side Bus
- Supports 200 MHz, 266 MHz and 333 MHz ECC DDR SDRAM
- Supports up to 1000Base-T Ethernet on board
- Supports up to 2 Channel 36 bits LVDS for LCD
- Supports four USB 2.0 ports
- Supports Enhanced Intel SpeedStep technology (Intel Pentium M)

Specifications

General

CPU	Embedded Intel Pentium M (Banias/Dothan)/Celeron M Processor supported, up to 2.0 GHz Celeron M 600 MHz (512 KB): PCI-6881F-M0A2 Pentium M 1.1 GHz: PCI-6881F-S0A2 uFCPGA2 (478pin): PCI-6881F-00A2/PCI-6881FG-00A2
2nd Cache Memory	1 or 2 MB on Pentium M processor, 512 KB/1 MB on Celeron M
System Chipset	Intel 855GME + ICH4
BIOS	AWARD® 4 Mbit Flash BIOS
System Memory	2 x 200 pin SODIMM x 2, support ECC DDR up to 2 GB
Power Management	APM 1.2, ACPI supported
SSD	Supports CompactFlash® Card Type I/II
Watch Dog Timer	0 ~ 255 sec, System reset or IRQ11
Expansion Interface	1 x 32-bit PCI slot
Battery	Lithium 3 V/196 mAH

I/O

I/O Interface	2 x EIDE (1 x Ultra DMA100,1 x Ultra DMA33), 1 x FDD, 1 x K/B, 1x Mouse, 1 x RS-232/422/485, 3 x RS-232, 1 x LPT
USB	4 x USB ports, USB 2.0 compliant
Audio	Supports AC97 Audio with optional PCM-231A-00A1
IrDA	N/A
GPIO	8-bit general purpose input/output
I/O Expansion	PCI

Ethernet

Chipset	Intel 82541PI (Gigabit), Intel 82551ER/82551QM (optional)
Speed	10/100Base-T, 10/100/1000Base-T
Interface	1 x RJ-45
Standard	IEEE 802.3 z/ab (1000Base-T) or IEEE 802.3u (100 Base-T) protocol compatible
Built-in Boot ROM	82541PI and 82551QM (optional)

Display

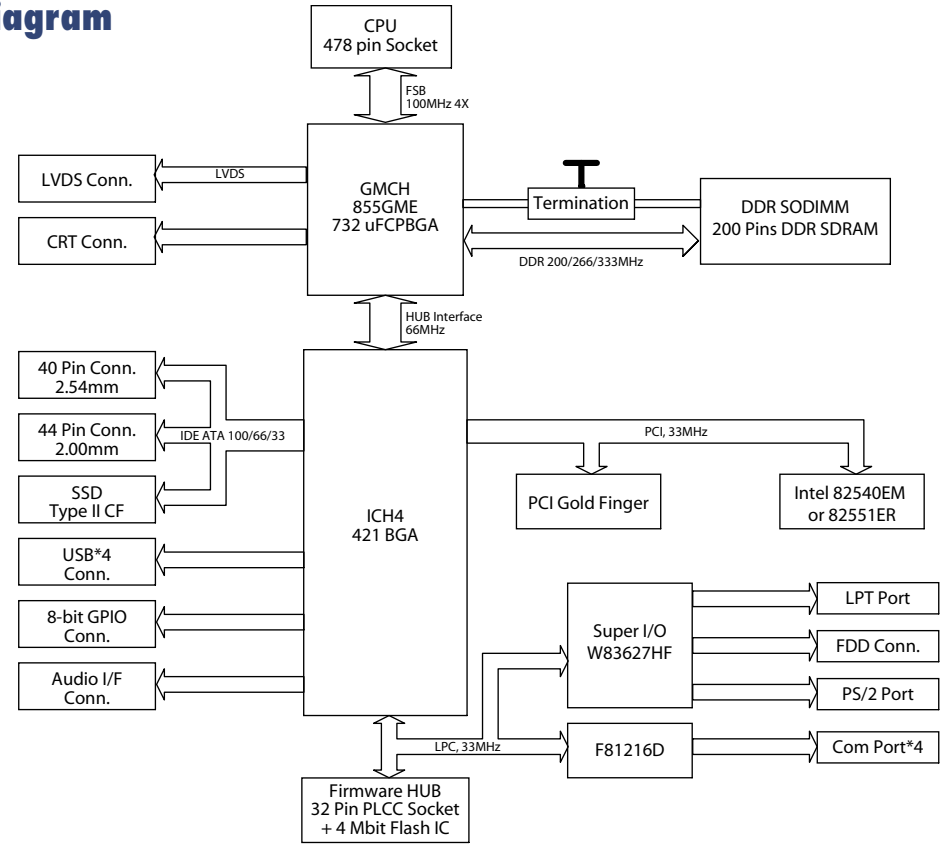
Chipset	Intel 855GME chip integrated. (Extreme Graphics 2)
Memory Size	Optimized Shared Memory Architecture, supports up to 64 MB frame buffer using system memory
Resolution	CRT Mode: up to 2048 x 1536 @ 75 Hz LVDS Mode: up to 1280 x 1024 @ 36 bpp, up to UXGA panel resolution with frequency range from 25 MHz to 112 MHz
LCD Interface	2 Channel LVDS (36-bit)
LVDS Interface	Hirose connector supports dual channel LVDS panel
TV-Out	N/A
Dual Independent Display	CRT + LVDS

Mechanical and Environmental

Dimension (L x W)	185 x 122 mm (7.3" x 4.8")
Weight	0.27 kg (weight of total package)
Operating Temperature	0 ~ 60° C (32 ~ 140° F), operation
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Power Supply Voltage	+5 V, +12 V ±5%
Power Consumption	Max: 6 A @ 5 V, 0.5 A @ 12 V, Typical: 5.2 A @ 5 V 0.25 A @ 12 V (w/PentiumM 1.6 GHz + 512 MB)

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCI-6881 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable** (p/n:1701400452)
- **1 x FDD Cable (600 mm)** (p/n:1701340603)
- **1 x Parallel Port Cable** (p/n:1700260250)
- **1 x Power Cable** (p/n:1700000265)
- **1 x ATX Feature Cable** (p/n:1700001276)
- **Mini Jumper** (p/n:1653302122)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

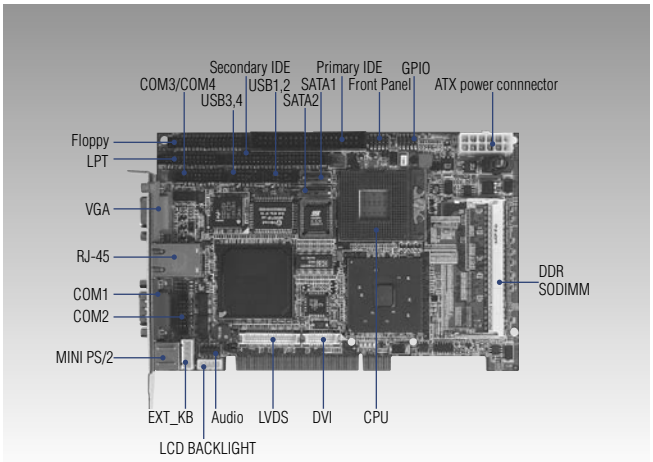
- **IPC-644P4-15ZE** 4-slot PCI chassis w/backplane & 150 W power supply
- **IPC-6806BP-20ZBE** PCI chassis with 200 W power supply
- **IPC-6606P5-30ZE** 5-slot PCI chassis w/backplane & 200 W power supply
- **PCA-6104P4-0B2E** 4-slot PCI backplane
- **PCA-6105P5-0B2E** 5-slot PCI backplane
- **1703100260** USB cable adapter (2.00 mm)
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter
- **PCM-231A-00A1E** Audio module with Line-in, Line-out, Mic
- **1701140201** COM2 cable (2.00 mm)
- **1700001166** COM3 & COM4 cable with bracket (2.00 mm)

Ordering Information

Standard	CRT	LVDS	10/100	Giga	USB	RS-232	RS-232/422/485	LPT	GPIO	CF
PCI-6881F-00A2E	1	1	1	--	4	3	1	1	8-bit	Type I/II
PCI-6881FG-00A2E	1	1	--	1	4	3	1	1	8-bit	Type I/II
PCI-6881F-M0A2E	1	1	1	--	4	3	1	1	8-bit	Type I/II
PCI-6881FG-M0A2E	1	1	--	1	4	3	1	1	8-bit	Type I/II
PCI-6881F-S0A2E	1	1	1	--	4	3	1	1	8-bit	Type I/II
PCI-6881FG-S0A2E	1	1	--	1	4	3	1	1	8-bit	Type I/II

PCI-6880

PCI Intel® Pentium® M/Intel Celeron® M Half-sized SBC with VGA/LCD/LVDS/Giga LAN/ USB 2.0/SATA and SSD



Features

- Embedded new generation Intel® Pentium® M/Intel Celeron® M Processor
- Supports 400 MHz Front Side Bus
- Supports 200 MHz, 266 MHz and 333 MHz DDR SDRAM
- Supports up to 1000Base-T Ethernet on board
- Supports up to 2 Channel 36 bits LVDS for LCD
- Supports four USB 2.0 ports
- Supports two SATA ports
- Supports Enhanced Intel SpeedStep technology (Intel Pentium M)
- Fanless operation @ 0 ~ 60° C (Celeron M 600 MHz/Pentium 1.1 GHz)

Specifications

General

- **CPU** — Embedded Intel Pentium M (Banias/Dothan)/Celeron M Processor supported, up to 1.8 GHz
  Celeron M 600 MHz (512 KB): PCI-6880F-M0A1E
  Pentium M 1.1 GHz: PCI-6880F-S1A1E
  uFCPGA2 (478pin): PCI-6880F-00A1E/PCI-6880FG-00A1E
- **2nd Cache Memory** — 1 or 2 MB on Pentium M process, 512 KB/1 MB on Celeron M
- **System Chipset** — Intel 855GME + 6300ESB
- **BIOS** — AWARD® 4 Mbit Flash BIOS
- **System Memory** — 2 x 200 pin DDR SODIMM, support ECC DDR up to 2 GB
- **Power Management** — APM 1.2, ACPI supported
- **SSD** — Supports CompactFlash® Card Type I/II
- **Watch Dog Timer** — 0 ~ 25 sec, sec, System reset
- **Expansion Interface** — 1 x 32-bit PCI slot
- **Battery** — Lithium 3 V/196 mAH

I/O

- **I/O Interface** — 2 x IDE, 1 x FDD, 1 x K/B, 1 x Mouse, 2 x SATA
  1 x RS-232/422/485, 3 x RS-232, 1 x LPT
- **USB** — 4 x USB ports, USB 2.0 compliant
- **Audio** — Supports AC97 Audio with optional PCM-231A-00A1
- **IrDA** — N/A
- **GPIO** — 8-bit general purpose input/output
- **I/O Expansion** — DVI, PCI

Ethernet

- **Chipset** — Intel 82541PI (Gigabit), Intel 82551ER/82551QM (optional)
- **Speed** — 10/100Base-T, 10/100/1000Base-T
- **Interface** — 1 x RJ-45
- **Standard** — IEEE 802.3 z/ab (1000Base-T) or IEEE 802.3u (100 Base-T) protocol compatible
- **Built-in Boot ROM** — 82541PI, with 82551QM can have this function by optional

Display

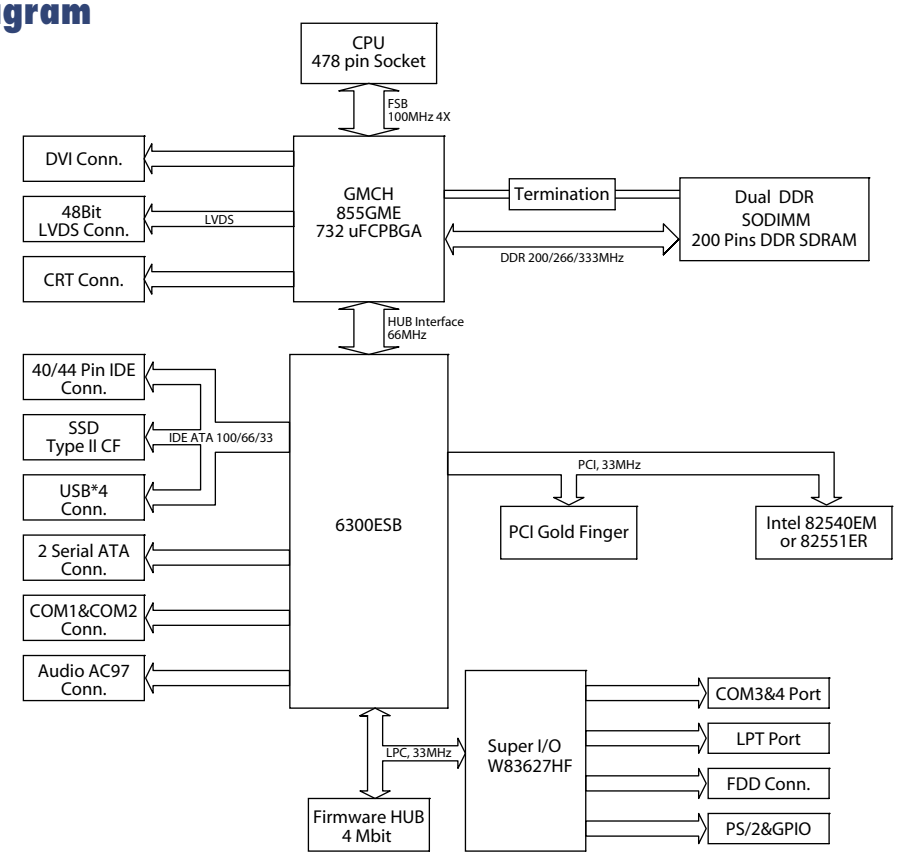
- **Chipset** — Intel 855GME chip integrated. (Extreme Graphics 2)
- **Memory Size** — Optimized Shared Memory Architecture, supports up to 64 MB frame buffer using system memory
- **Resolution** — CRT Mode: up to 2048 x 1536 @ 75 Hz
  LVDS Mode: up to 1280 x 1024 @ 36 bpp, up to UXGA panel resolution with frequency range from 25 MHz to 112 MHz
- **LCD Interface** — 2 Channel LVDS (36-bit)
- **LVDS Interface** — Hirose connector supports dual channel LVDS panel
- **TV-Out** — N/A
- **Dual Independent Display:** CRT + LVDS, CRT + DVI (only operate under Windows), LVDS + DVI (only operate under Windows)

Mechanical and Environmental

- **Dimension (L x W)** — 185 x 122 mm (7.3" x 4.8")
- **Weight** — 0.27 kg (weight of total package)
- **Operating Temperature** — 0 ~ 60° C (32 ~ 140° F), operation
- **Operating Humidity** — 0% ~ 90% relative humidity, non-condensing
- **Power Supply Voltage** — +5 V, +5 V STB and +12 V
- **Power Consumption** — Max: 4.14 A @ 5 V, 0.22 A @ 12 V (w/Celeron M 1.3 GHz +256 MB);
  7.16 A @ 5 V, 0.24 A @ 12 V (w/Pentium M 1.6 GHz + 256 MB);
  5.04 A @ 5 V, 0.22 A @ 12 V (w/Pentium M 1.8 GHz + 256 MB);
  Typical: 1.81 A @ 5 V, 0.22 A @ 12 V (w/CeleronM 1.3 GHz + 256 MB);
  2.56 A @ 5 V, 0.22 A @ 12 V (w/Pentium M 1.6 GHz + 256 MB);
  2.45 A @ 5 V, 0.22 A @ 12 V (w/Pentium M 1.8 GHz + 256 MB);

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCI-6880 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable** (p/n:1701400452)
- **1 x FDD Cable (600 mm)** (p/n:1701340603)
- **1 x Parallel Port Cable** (p/n:1700260250)
- **1 x Power Cable** (p/n:1700000265)
- **1 x ATX Feature Cable** (p/n:1700001276)
- **1 x Mini Jumper** (p/n:1653302122)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

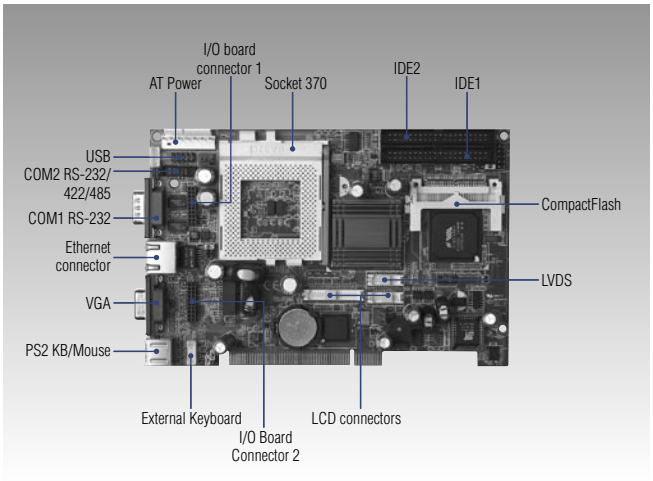
- **IPC-644P4-15ZE** 4-slot PCI chassis w/backplane & 150 W power supply
- **IPC-6806BP-20ZBE** PCI chassis with 200 W power supply
- **IPC-6606P5-30ZE** 5-slot PCI chassis w/backplane & 200 W power supply
- **PCA-6104P4-0B2E** 4-slot PCI backplane
- **PCA-6105P5-0B2E** 5-slot PCI backplane
- **1703100260** USB cable adapter (2.00 mm)
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter
- **PCM-231A-00A1E** Audio module with Line-in, Line-out, Mic
- **1701140201** COM2 cable (2.00 mm)
- **1700001166** COM3 & COM4 cable with bracket (2.00 mm)

Ordering Information

Standard	CRT	LVDS	10/100	Giga	USB	RS-232	RS-232/422/485	LPT	GPIO	CF
PCI-6880F-00A1E	1	1	1	--	4	3	1	1	8-bit	Type I/II
PCI-6880FG-00A1E	1	1	--	1	4	3	1	1	8-bit	Type I/II
PCI-6880F-M0A1E	1	1	1	--	4	3	1	1	8-bit	Type I/II
PCI-6880F-S1A1E	1	1	1	--	4	3	1	1	8-bit	Type I/II

PCI-6872

PCI Socket 370 Slot-PC, VGA/LCD/ LVDS/LAN/CFC with Optional 2nd LAN



Features

- Supports Socket 370 for for VIA® C3 and Intel® processors up to Pentium® III 1.26 GHz with 512 KB (Tualatin®)
- Supports selectable LAN (1 x 10/100Base-T LAN or 2 x 10/100Base-T LAN)
- Four AGP graphics for high performance applications
- Supports boot from USB device
- Supports wake-on-LAN
- Supports call-up by Modem
- Supports LVDS interface
- Supports LCD backlight turn-off function
- RS-485 auto-flow

Specifications

General

- **CPU** Socket 370 for VIA C3 and Intel processors up to Pentium III 1.26 GHz with 512 KB (Tualatin)
- **2nd Cache Memory** 128/256/512 KB on Celeron/Pentium III Processor, or 64KB on VIA C3 processor
- **System Chipset** VIA VT8606 TwisterT® +VT82C686B
- **BIOS** AWARD® 256 kbit Flash memory
- **System Memory** 1 x SODIMM accepts 64 MB up to 512 MB SDRAM
- **Power Management** Supports power saving modes including Normal/ Standby/Suspend modes. APM 1.2 compliant
- **SSD** Supports one 50-pin socket for CompactFlash® type I/II
- **Watch Dog Timer** 62-level timer intervals
- **Expansion Interface** 1 x 32-bit PCI slot
- **Battery** Lithium 3 V/196 mAH

I/O

- **I/O Interface** 2 x IDE, 1 x FDD, 1 x K/B, 1 x Mouse, 1 x RS-232/422/485, 1 x RS-232, 1 x LPT
- **USB** 4 x USB ports (2 x USB ports without daughter board)
- **Audio** N/A
- **IrDA** N/A
- **I/O Expansion** I/O daughter board connectors, PCI

Ethernet interface

- **Chipset** Intel 82551ER (82551QM optional)
- **Speed** 1 x 10/100Base-T or 2 x 10/100Base-T (with daughter board)
- **Interface** 1 x RJ-45
- **Standard** IEEE 802.3u (100 Base-T) protocol compatible
- **Built-in Boot ROM** Optional

Display

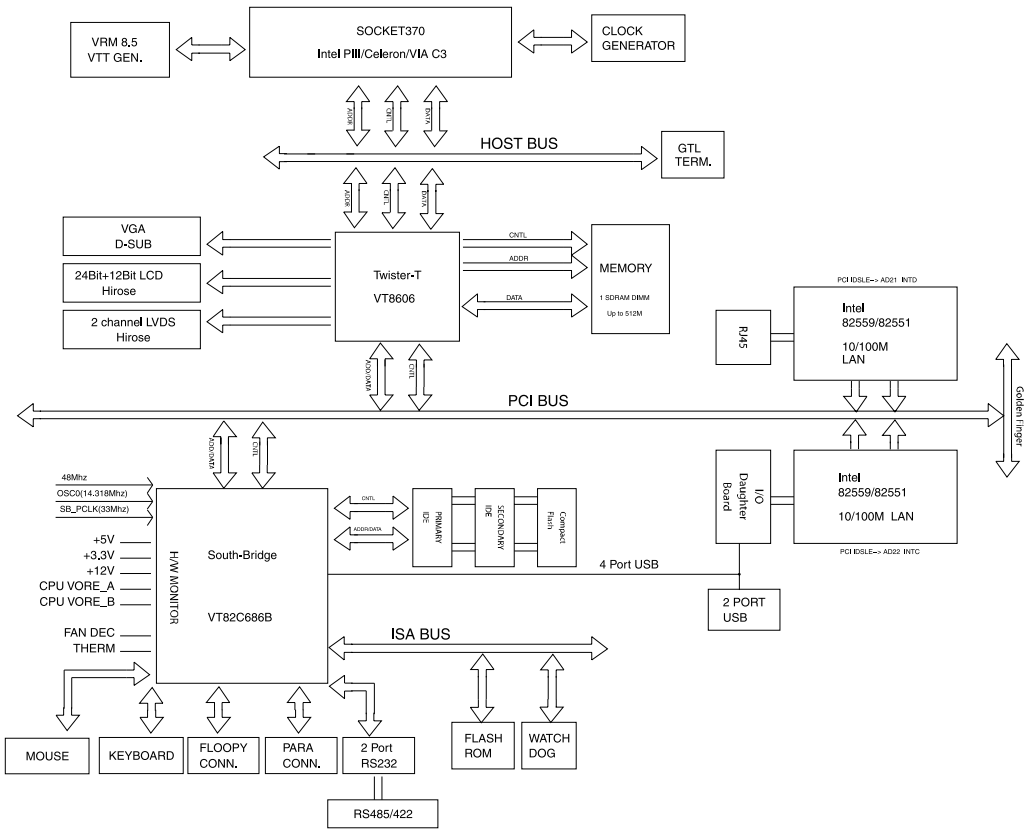
- **Chipset** VIA TwisterT chip with integrated Savage4 2D/3D/Video Accelerator
- **Memory Size** Supports 8/16/32 MB frame buffer with system memory
- **Resolutions**
  CRT Modes:
  1280 x 1024 @ 16 bpp (60 Hz),
  1024 x 768 @ 16 bpp (85 Hz)
  800 x 600 @ 16 bpp (60 Hz)
  LCD/Simultaneous Modes:
  1280 x 1024 @ 16 bpp (60 Hz)
  1024 x 768 @ 16 bpp (60 Hz)
  1280 x 1024 @ 32 bpp
- **LCD Interface** Supports for 9, 12, 15, 18, 24, 36 bit TFT
- **LVDS Interface** 2-Channel (2 x 18-bit) LVDS interface
- **TV-Out** N/A
- **Dual Independent Display:** N/A

Mechanical and Environmental

- **Dimension (L x W)** 185 x 122 mm (7.3" x 4.8")
- **Weight** 0.27 kg (weight of total package)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F), operation
- **Operating Humidity** 0% ~ 90% relative humidity, non-condensing
- **Power Supply Voltage** +5 V, +12 V ± 5%
- **Power Consumption** Max: 5.68 A @ +5 V, 0.15 A @+12 V
  Typical : 5.5 A @ +5 V, (with PC133 MHz 256 MB SDRAM, 1.26 GHz); 0.11 A @ +12 V, (with PC133 MHz 256 MB SDRAM, 1.26 GHz)

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCI-6872 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable** (p/n:1701400452)
- **1 x FDD Cable** (p/n:1701260125)
- **1 x Parallel Port Cable** (p/n:1700260250)
- **1 x Power Cable** (p/n:1703080101)
- **1 x COM Port Cable** (p/n:1700100250)
- **1 x Mini Jumper** (p/n:1653300100)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

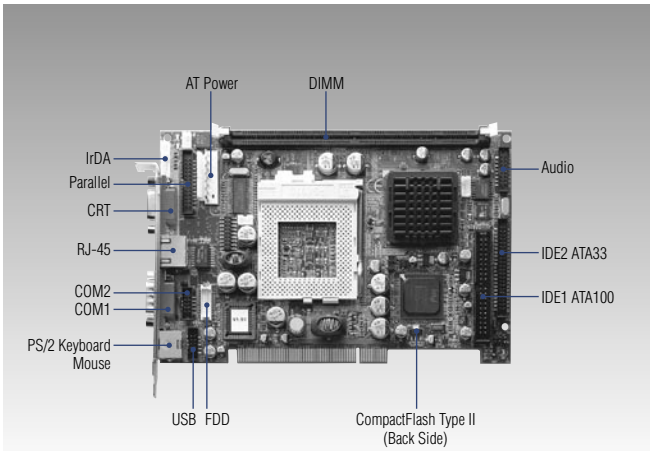
- **IPC-644P4-15ZE** 4-slot PCI chassis w/backplane & 150 W power supply
- **IPC-6806BP-20ZBE** PCI chassis with 200 W power supply
- **IPC-6606P5-30ZE** 5-slot PCI chassis w/backplane & 200 W power supply
- **PCA-6104P4-0B2E** 4-slot PCI backplane
- **PCA-6105P5-0B2E** 5-slot PCI backplane
- **1703100260** USB cable adapter (2.00 mm)
- **1703200100** ATX power cable
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter
- **1759209100** Fan/Heatsink module

Ordering Information

Standard	CRT	LVDS	10/100	USB	RS-232	RS-232/422/485	LPT	CF
PCI-6872F-00A1E	1	1	1	4	1	1	1	Type I/II
PCI-6872F-02A1E	1	1	2	4	1	1	1	Type I/II

PCI-6870

PCI Socket 370 Slot-PC SBC,VGA/LAN/CFC II



Features

- 32-bit PCI Slot
- Supports Socket 370 Intel® Celeron®/Intel Pentium® III Processor up to 1.2/1.26 GHz
- Supports up to 100/133 MHz FSB
- Direct AGP VGA

Specifications

General

CPU	Supports FC-PGA/FC-PGA2 Socket 370 Celeron/ Pentium III up to 1.2/1.26 GHz (Does not support PPGA CPU)
2nd Cache Memory	128 KB on the Celeron, 256 KB on the Pentium III
System Chipset	Intel 815E
BIOS	AWARD® 256 kbit Flash BIOS
System Memory	1 x SDRAM DIMM, Max. 512 MB
Power Management	ACPI
SSD	Supports CompactFlash® Card Type I/II
Watch Dog Timer	15 sec. ~ 127 min., Step 30 sec, System reset or IRQ11
Expansion Interface	1 x 32-bit
Battery	Lithium 3 V/196 mAH

I/O

I/O Interface	2 x EIDE (1 x Ultra DMA100, 1 x Ultra DMA33), 1 x FDD, 1 x K/B, 1 x Mouse, 1 x RS-232/422/485, 1 x RS-232, 1 x LPT
USB	2 x USB ports, USB 1.1 compliant
Audio	AC'97 compliant
IrDA	115 kbps, IrDA 1.0 compliant
GPIO	N/A
I/O Expansion	PCI

Ethernet

Chipset	815E embedded + Intel 82562ET
Speed	10/100Base-T
Interface	1 x RJ-45
Standard	PCI Ethernet controller, IEEE 802.3 protocol compatible

Display

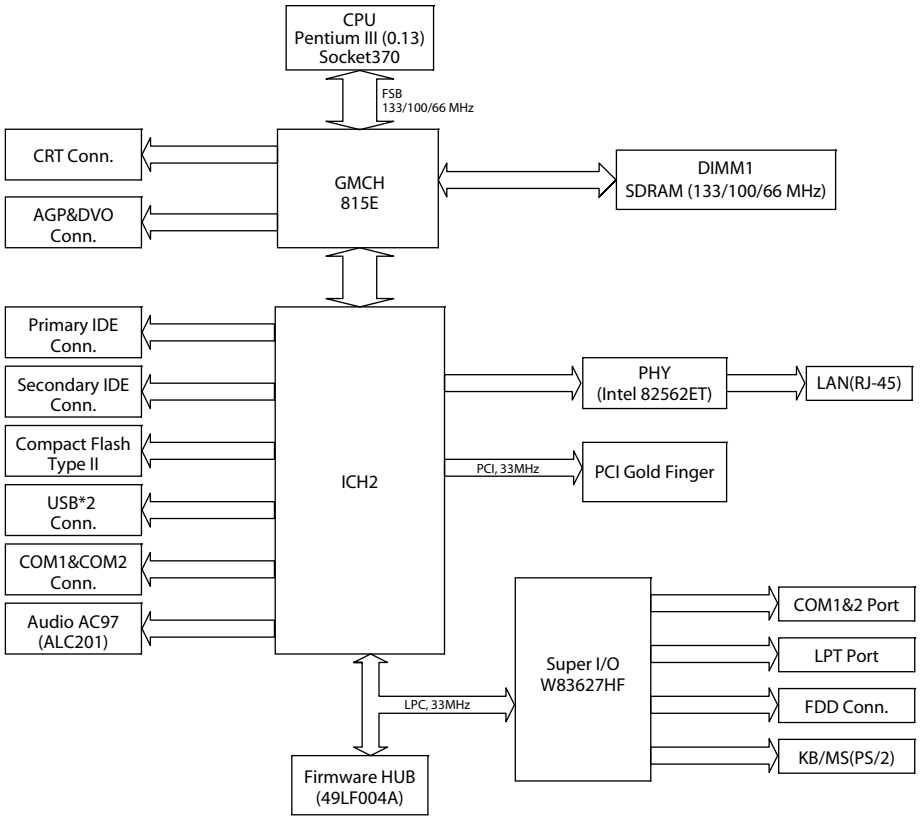
Chipset	Intel 815E embedded
Memory Size	Share system memory up to 64 MB
Resolution	1024 x 768 @ 24 bpp 800 x 600 @ 24 bpp
LCD Interface	N/A
LVDS Interface	N/A
TV-Out	N/A
Dual Independent Display	N/A

Mechanical and Environmental

Dimension (L x W)	185 x 122 mm (7.3" x 4.8")
Weight	0.27 kg (weight of total package)
Operating Temperature	0 ~ 60° C (32 ~ 140° F), operation
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Power Supply Voltage	+5 V, +12 V ± 5%
Power Consumption	Max: 8 A @ 5 V Typical: 6.68 A @ 5 V (w/PIII 850 MHz, 256 MB SDRAM) 280 mA @ 12 V

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCI-6870 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable** (p/n:1701400452)
- **1 x FDD Cable (600 mm)** (p/n:1703340400)
- **1 x Parallel Port Cable** (p/n:1700260250)
- **1 x Com Port Cable** (p/n:1700100250)
- **1 x Power Cable** (p/n:1703080101)
- **1 x Mini Jumper** (p/n:1653300100)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

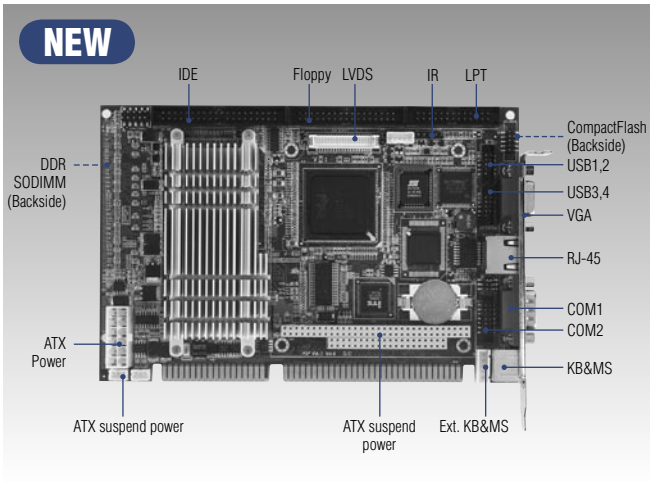
- **IPC-644P4-15ZE** 4-slot PCI chassis w/backplane & 150 W power supply
- **IPC-6806BP-20ZBE** PCI chassis with 200 W power supply
- **IPC-6606P5-30ZE** 5-slot PCI chassis w/backplane & 200 W power supply
- **PCA-6104P4-0B2E** 4-slot PCI backplane
- **PCA-6105P5-0B2E** 5-slot PCI backplane
- **1703100260** USB cable adapter (2.00 mm)
- **9689000042** IrDA adapter
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter
- **1759209100** Fan/Heatsink module
- **1700160160** Audio Cable

Ordering Information

Standard	CRT	10/100	USB	RS-232	RS-232/422/485	LPT	IrDA	CF
PCI-6870F-00A2E	1	1	2	1	1	1	115 kbps	Type I/II

PCA-6780

ISA half-sized SBC, ULV Celeron M, VGA/LCD/LAN/CFC/USB



Features

- Intel® Celeron® M CPU 852GM+ICH4 Chipsets
- 200 pin SODIMM socket DDR 200/266 MHz SDRAM up to 1 GB
- 110/100 Base-T Ethernet
- Fanless

Specifications

General

- **CPU** Intel Celeron M processor
- **2nd Cache Memory** 512 KB L2 cache on Celeron M 600 MHz, 0 KB L2 cache on Celeron M 1 GHz
- **System Chipset** Intel 852GM + ICH4
- **BIOS** AWARD 4 Mbit Flash BIOS
- **System Memory** 1 x 200-pin SODIMM support DDR 200/266 MHz SDRAM up to 1 GB
- **Power Management** APM 1.2
- **SSD** Support Compact Flash Card TYPE I/II
- **Watchdog Timer** 255 level timer interval
- **Expansion Interface** 16-bit ISA Gold Finger
- **Battery** Lithium 3 V/220 mAH

I/O

- **I/O Interface** 2 x EIDE (supports ATA-100/66/33 IDE devices), 1 x FDD, 1 x K/B, 1 x mouse, 1 x RS-232, 1 x RS-232/422/485
- **Audio** AC97 interface for external Audio CODEC
- **IrDA** 115.2 kbps, IrDA 1.0 compliant
- **GPIO** 8-bit General Purpose I/O for DI and DO

Ethernet

- **Chipset** Realtek RTL8100C or Intel 82551ER
- **Speed** 10/100 Base-T
- **Interface** 1 x RJ-45
- **Standard** IEEE 802.3u

Display

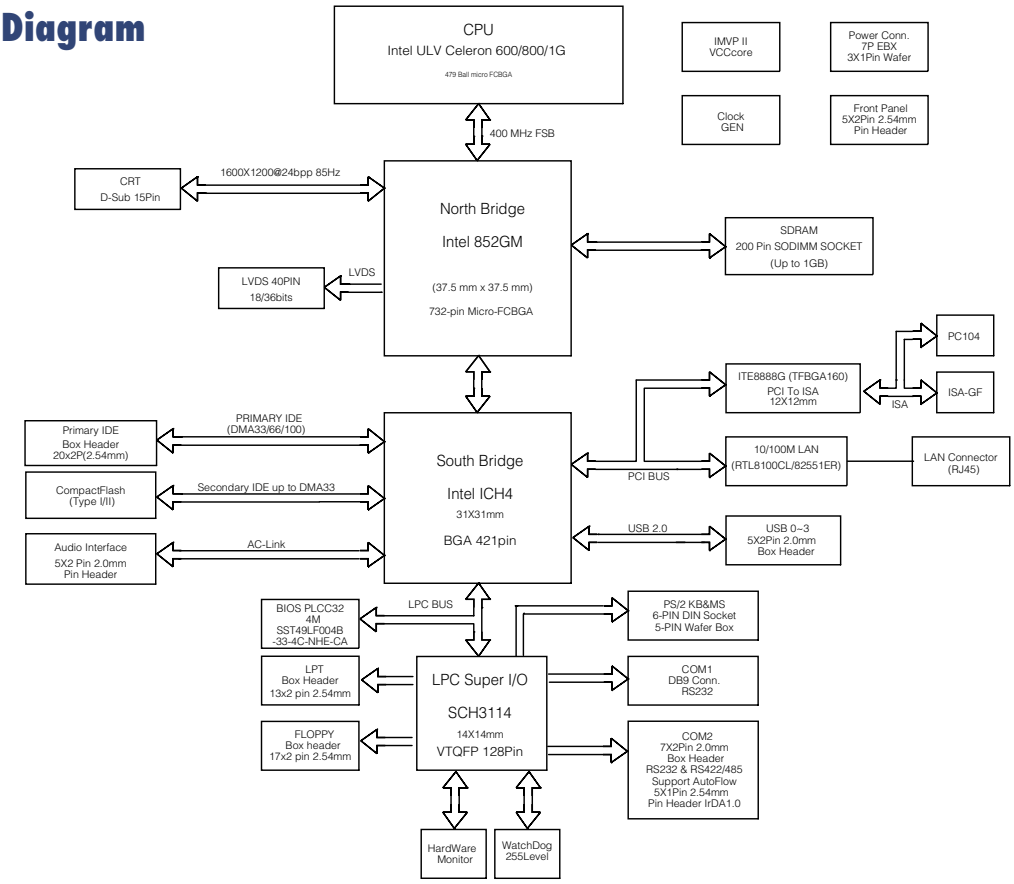
- **Chipset** Intel 852GM integrated graphic
- **Memory Size** up to 64 MB shared Memory
- **Resolution** VGA mode:1920 x 1440 @ 60 MHz
LCD mode:1440 x 1050 @ 60 MHz
- **Dual Independent Display** CRT+LVDS
- **LVDS** Dual-channel 18-bit LVDS

Mechanical and Environmental

- **Dimension (L x W)** 185 x 122 mm
- **Weight** 0.27kg
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Operating Humidity** Operating Humidity 10% ~ 90% relative humidity, noncondensing
- **Power Supply Voltage** +5 V ±5 %, +12 V ±5 %
- **Power Consumption**

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCA-6780 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable** (p/n:1701400452)
- **1 x FDD Cable** (p/n:1703340400)
- **1 x Parallel Port Cable** (p/n:1700260250)
- **1 x Power Cable** (p/n:1703080101)
- **1 x COM Port Cable** (p/n: 1700100250)
- **1 x Mini Jumper** (p/n:1653300100)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

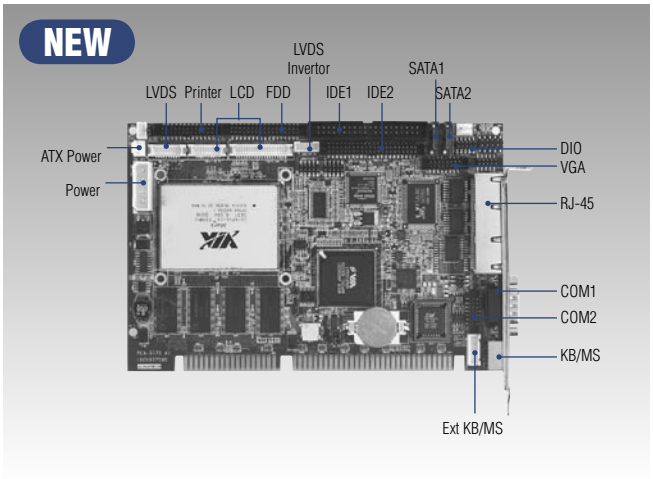
- **PCA-6104-0C2E** 4-slot ISA backplane
- **PCA-6106-0B2E** 6-slot ISA backplane
- **PCA-6108-0C2E** 8-slot ISA backplane
- **IPC-644-15ZE** 4-slot ISA chassis w/backplane & 150 W power supply
- **IPC-6806-20ZBE** 6-slot ISA chassis w/backplane & 200 W power supply
- **IPC-6606BP-25ZE** ISA chassis with 250 W power supply
- **IPC-6606BP-30ZE** ISA chassis with 300 W power supply
- **PCM-231A-00A1E** Audio module with Line-in, Line-out, Mic
- **1703100260 USB** cable adapter (2.00 mm)
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter
- **9689000042** IrDA adapter

Ordering Information

Standard	CRT	LVDS	10/100	USB	RS-232	RS-232/422/485	LPT	GPIO	IrDA	CF	PC-104
PCA-6780F-M0A1E	1	1	1	4	1	1	1	8-bit	115 kbps	Type I/II	1
PCA-6780F-S0A1E	1	1	1	4	1	1	1	8-bit	115 kbps	Type I/II	1

PCA-6775

ISA VIA Slot-PC SBC, with VGA/ LCD/LAN/SSD/3LAN



Features

- VIA Mark 533/800 MHz CPU
- 64 MB Memory on board, support 1 SODIMM socket SDRAM up to 512 MB
- 110/100/1000 Base-T Ethernet, or 3 10/100 Base-T Ethernet
- Four USB, two COM, two SATA (optional)

CE FCC

Specifications

General

CPU	VIA Mark 533/800 MHz CPU, FSB 133 MHz
2nd Cache Memory	64-KB Cache
System Chipset	NorthBridge Embedded in CPU+VT82C686B
BIOS	AWARD 2 Mbit Flash BIOS
System Memory	1 x 144-pin SODIMM SDRAM, 512 MB PC133 SDRAM
Power Management	APM 1.1
SSD	Support Compact Flash Card TYPE I/II
Watchdog Timer	256 level timer interval
Expansion Interface	16-bit ISA Gold Finger
Battery	Lithium 3 V/220 mAH

I/O

I/O Interface	2 x EIDE (supports ATA-100/66/33 IDE devices), 1 x FDD, 1 x K/B, 1 x mouse, 1 x RS-232, 1 x RS-232/422/485, 2 x SATA(optional)
Audio	Supports CD-in, Line-in, Line-out
IrDA	115.2 kbps, IrDA 1.0 compliant
GPIO	8-bit General Purpose I/O for DI and DO

Ethernet

Chipset	Realtek RTL8110SC or RTL8100C
Speed	10/100 Base-T or 10/100/1000 Base-T
Interface	1 x RJ-45 or 3 x RJ-45
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3z/ab (optional)

Display

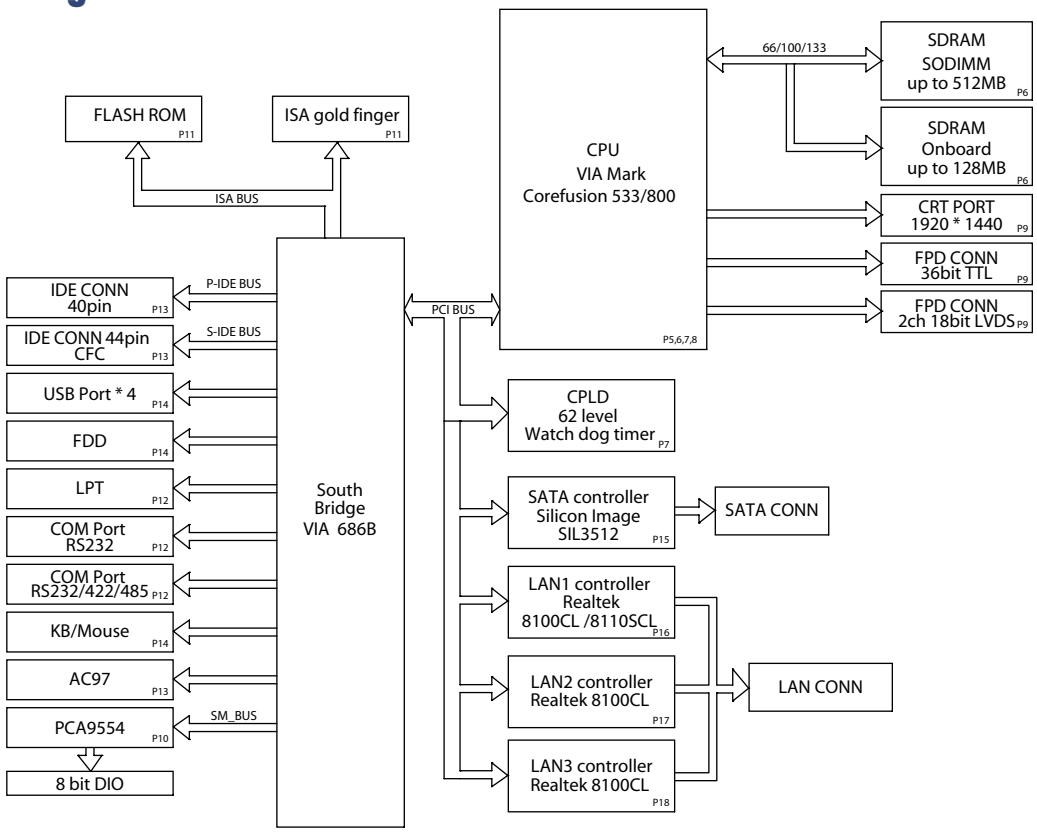
Chipset	VIA Mark CPU integrated graphic
Memory Size	8/16/32 MB shared Memory
Resolution	VGA mode:1920 x 1440 @ 85 MHz LCD mode:1600 x 1200
Dual Independent Display	VGA/LVDS/TTL LCD
LVDS	Dual-channel 18-bit LVDS
TTL LCD	36-bit TTL LCD
Combination	VGA+LVDS or VGA+TTL LCD

Mechanical and Environmental

Dimension (L x W)	185 x 122 mm
Weight	0.27kg
Operating Temperature	0 ~ 60° C (32 ~ 140° F)
Operating Humidity	Operating Humidity 10% ~ 90% relative humidity, noncondensing
Power Supply Voltage	+5 V ±5 %, +12 V ±5 %
Power Consumption	Max: +5 V @ 2.20 A, +12 V @ 0.04 A Typical: +5 V @ 1.64 A, +12 V @ 0.01 A (VIA Mark 533 MHz with 256 MB SDRAM)

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCA-6775 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable** (p/n:1701400452)
- **1 x FDD Cable** (p/n:1703340400)
- **1 x Parallel Port Cable** (p/n:1700260250)
- **1 x Power Cable** (p/n:1703080101)
- **1 x COM Port Cable** (p/n: 1700100250)
- **1 x Mini Jumper** (p/n:1653300100)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

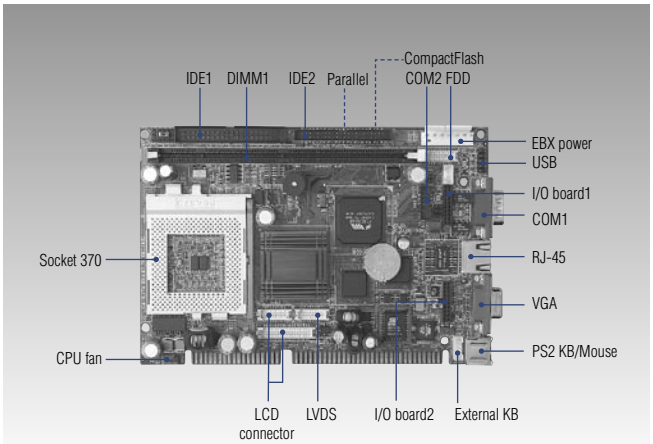
- **PCA-6104-0C2E** 4-slot ISA backplane
- **PCA-6106-0B2E** 6-slot ISA backplane
- **PCA-6108-0C2E** 8-slot ISA backplane
- **IPC-644-15ZE** 4-slot ISA chassis w/backplane & 150 W power supply
- **IPC-6806-20ZBE** 6-slot ISA chassis w/backplane & 200 W power supply
- **IPC-6606BP-25ZE** ISA chassis with 250 W power supply
- **IPC-6606BP-30ZE** ISA chassis with 300 W power supply
- **PCM-231A-00A1E** Audio module with Line-in, Line-out, Mic
- **1703100260** USB cable adapter (2.00 mm)
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter
- **9689000042** IrDA adapter

Ordering Information

Standard	CRT	LVDS	TTL	10/100	Giga	SATA	USB	RS-232	RS-232/422/485	LPT	GPIO	IrDA	CF
PCA-6775F-L0A1E	1	1	1	1	optional	optional	4	1	1	1	8-bit	115 kbps	Type I/II
PCA-6775F-Q0A1E	1	1	1	1	optional	optional	4	1	1	1	8-bit	115 kbps	Type I/II
PCA-67753F-L0A1E	1	1	1	3	--	optional	4	1	1	1	8-bit	115 kbps	Type I/II
PCA-67753F-Q0A1E	1	1	1	3	--	optional	4	1	1	1	8-bit	115 kbps	Type I/II

PCA-6774

ISA Socket 370 Slot-PC SBC, VGA/LCD/LVDS/ LAN/CFC/Optional Second LAN



Features

- Socket 370 supports up to 1.26 GHz Intel® Pentium® III with 512 KB
- Giga LAN/Second Lan support
- Supports up to 133 MHz FSB
- Four AGP graphics for high performance
- Supports TFT and DSTN LCD, LVDS

RoHS CE FCC

Specifications

General

- **CPU** — Supports FC-PGA/FC-PGA2 Socket 370, Celeron/ Pentium III CPU, up to 1.26 GHz Pentium III with 512 KB (Does not support PPGA CPU)
- **2nd Cache Memory** — 64 KB on the CPU
- **System Chipset** — VIA VT8606 "TwisterT"+VT82C686B
- **BIOS** — AWARD® 256 kbit Flash BIOS
- **System Memory** — 1 x SDRAM DIMM, Max. 512 MB
- **Power Management** — ACPI, APM1.2
- **SSD** — Supports CompactFlash® Card typeI/II
- **Watch Dog Timer** — 1 ~ 62 sec, System reset or IRQ11
- **Expansion Interface** — 1 x 16-bit ISA slot
- **Battery** — Lithium 3 V/196 mAH

I/O

- **I/O Interface** — 2 x EIDE , 1 x FDD, 1 x K/B, 1 x Mouse, 1 x RS-232/422/485, 1 x RS-232, 1 x LPT
- **USB** — 4 x USB ports, USB 1.1 compliant
- **Audio** — N/A
- **IrDA** — N/A
- **GPIO** — N/A
- **I/O Expansion** — I/O daughter board connectors, ISA

Ethernet

- **Chipset** — Intel 82551/82559 (PCA-6774F-00A1, PCA-6774F-02A1) Intel 82540 (PCA-6774FG-00A1)
- **Speed** — 10/100Base-T, 10/100/1000Base-T
- **Interface** — 1 x RJ-45
- **Standard** — IEEE 802.3 z/ab (1000Base-T) or IEEE 802.3u (100Base-T) protocol compatible
- **Built-in Boot ROM** — (optional when using Intel 82559 LAN chip)

Display

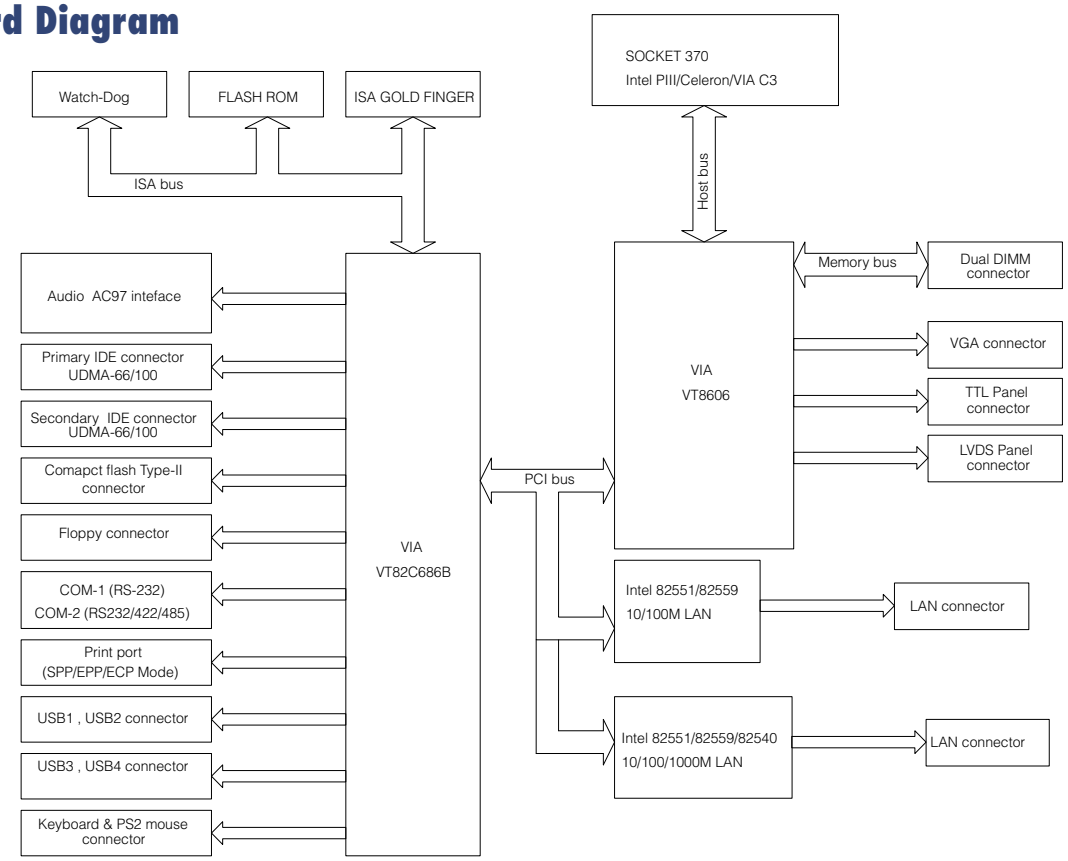
- **Chipset** — VIA VT8606 "TwisterT" integrated ProSavage4 2D/3D/ Video Accelerator
- **Memory Size** — 8/16/32 MB frame buffer using system memory
- **Resolution** — CRT Mode: 1280 x 1024 @ 16 bpp (60 Hz), 1024 x 768 @ 16 bpp (85 Hz) 800 x 600 @ 16 bpp (60 Hz), LCD Mode: 1280 x 1024 @ 16 bpp (60 Hz) 1024 x 768 @ 16 bpp (60 Hz) 1280 x 1024 @ 32 bpp
- **LCD Interface** — 36-bit TTL
- **LVDS Interface** — 2-Channel (2 x 18-bit) LVDS interface
- **TV-Out** — N/A
- **Dual Independent Display** — N/A

Mechanical and Environmental

- **Dimension (L x W)** — 185 x 122 mm (7.3" x 4.8")
- **Weight** — 0.27 kg (weight of total package)
- **Operating Temperature** — 0 ~ 60° C (32 ~ 140° F), operation
- **Operating Humidity** — 0% ~ 90% relative humidity
- **Power Supply Voltage** — +5 V, +12 V ± 5%
- **Power Consumption** — Max. : 6.18 A @ +5 V, 0.22 A @ +12 V Typical : 5.5 A @ +5 V(w/128MB SDRAM, Pentium III 1.0GHz) 0.17A @ +12 V(w/128 MB SDRAM, Pentium III 1.0 GHz)

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCA-6774 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable** (p/n:1701400452)
- **1 x FDD Cable** (p/n:1703340400)
- **1 x Parallel Port Cable** (p/n:1700260250)
- **1 x Power Cable** (p/n:1703080101)
- **1 x COM Port Cable** (p/n: 1700100250)
- **1 x Mini Jumper** (p/n:1653300100)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

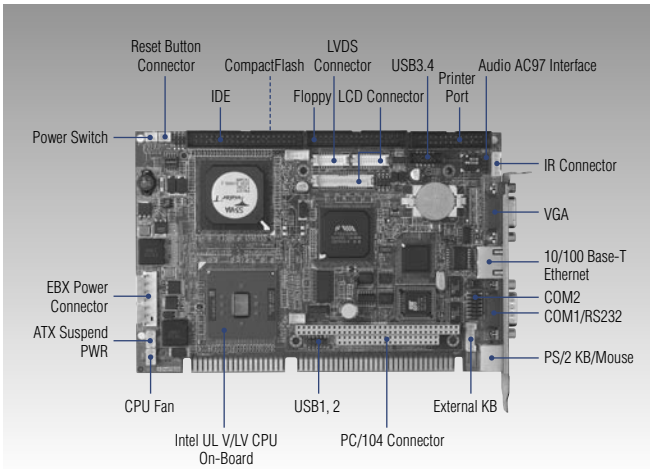
- **PCA-6104-0C2E** 4-slot ISA backplane
- **PCA-6106-0B2E** 6-slot ISA backplane
- **PCA-6108-0C2E** 8-slot ISA backplane
- **IPC-644-15ZE** 4-slot ISA chassis w/backplane & 150 W power supply
- **IPC-6806-20ZBE** 6-slot ISA chassis w/backplane & 200 W power supply
- **IPC-6606BP-25ZE** ISA chassis with 250 W power supply
- **IPC-6606BP-30ZE** ISA chassis with 300 W power supply
- **PCM-231A-00A1E** Audio module with Line-in, Line-out, Mic
- **1703100260** USB cable adapter (2.00 mm)
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter

Ordering Information

Standard	CRT	LVDS	TTL	10/100	USB	RS-232	RS-232/422/485	LPT	CF
PCA-6774F-00A1E	1	1	1	1	4	1	1	1	Type I/II
PCA-6774FG-00A1E	1	1	1	1	4	1	1	1	Type I/II
PCA-6774F-02A1E	1	1	1	1	4	1	1	1	Type I/II

PCA-6773

ISA based Slot-PC w/Intel® Celeron® ULV400, 650/Pentium® LV800, 933, supporting VGA/ LVDS/LAN/CFC and PC/104



Features

- Intel® Celeron® ULV400, 650/Pentium® LV800, 933 CPU on board (optional)
- Onboard PCI SVGA VGA/LCD display
- Four AGP graphics for high performance applications
- Low power consumption, requires no CPU cooling fan (ULV400, 650)
- 10/100 Mbps Ethernet
- Supports boot from USB device
- Supports wake-on-LAN (Optional: Intel 82551QM,Realtek 8100C)
- Supports call-up by Modem
- Supports LVDS interface
- Supports LCD backlight turn-off function
- RS-485 auto-flow

RoHS CE FCC

Specifications

General

CPU	Onboard Intel Celeron ULV400, 650/Pentium LV800, 933 MHz CPU (optional)
2nd Cache Memory	Celeron ULV400, 650: 256 KB Pentium III LV800, 933: 512 KB
System Chipset	VIA® VT8606 "TwisterT"+VT82C686B
BIOS	AWARD® 256 kbit Flash BIOS
System Memory	1 x SDRAM SODIMM, Max. 512 MB (optional: 2 x SODIMM, Max. 1 GB)
Power Management	APM 1.2
SSD	Supports CompactFlash®. Card typeI/II
Watch Dog Timer	1 ~ 62 sec, System reset or IRQ11
Expansion Interface	1 x 16-bit ISA slot, 1 x PC/104 connector
Battery	Lithium 3 V/196 mAH

I/O

I/O Interface	1 x EIDE (ATA-100), 1 x FDD, 1 x K/B, 1 x Mouse, 1 x RS-232/422/485, 1 x RS-232, 1 x LPT
USB	4 x USB ports, USB 1.1 compliant
Audio	Supports AC97 Audio with optional PCM-231A-00A1E
IrDA	115 kbps SIR, IrDA 1.0 compliant
GPIO	4 x in/out
I/O Expansion	PC/104, ISA

Ethernet

Chipset	Intel 82551ER, 82551QM (optional) RealTek 8100C (optional)
Speed	10/100Base-T
Interface	1 x RJ-45
Standard	IEEE 802.3u (100Base-T) protocol compatible
Boot ROM	Optional

Display

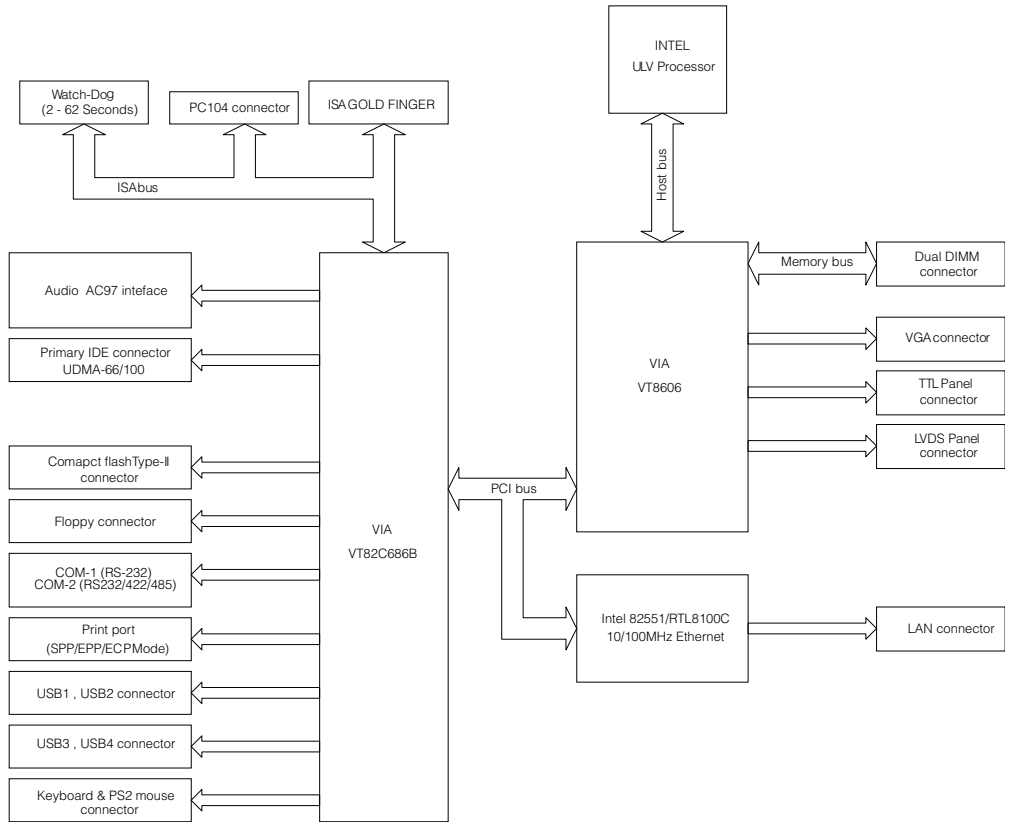
Chipset	VIA TwisterT chip with integrated Savage4 2D/3D/Video Accelerator
Memory Size	Supports 8/16/32 MB frame buffer with system memory
Resolution	CRT Modes: 1280 x 1024 @ 16 bpp (60 Hz) 1024 x 768 @ 16 bpp (85 Hz) 800 x 600 @ 16 bpp (60 Hz) LCD/Simultaneous Modes: 1280 x 1024 @ 16 bpp (60 Hz) 1024 x 768 @ 16 bpp (60 Hz) 1280 x 1024 @ 32 bpp
LCD Interface	Supports for 9, 12, 15, 18, 24, 36 bit TFT
LVDS Interface	Supports LVDS interface
TV-Out	N/A
Dual Independent Display	N/A

Mechanical and Environmental

Dimension (L x W)	185 x 122 mm (7.3" x 4.8")
Weight	0.27 kg (weight of total package)
Operating Temperature	0 ~ 60° C (32 ~ 140° F), operation
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Power Supply Voltage	+5 V, +12 V ± 5%
Power Consumption	Max: 5 A @ +5 V, 201 mA @ +12 V (with 128 MB SDRAM, Intel ULV-400 MHz CPU) Typical : 2.55 A @ +5 V, 48 mA @ +12 V (with 128 MB SDRAM, Intel ULV-400 MHz CPU)

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCA- 6773 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable (600 mm)** (p/n:170140060A)
- **1 x FDD Cable (700 mm)** (p/n:1701340705)
- **1 x COM Port Cable** (p/n:1701140201)
- **1 x ATX/AT Power Cable** (p/n:1703080101)
- **1 x Mini Jumper** (p/n:1653302122)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

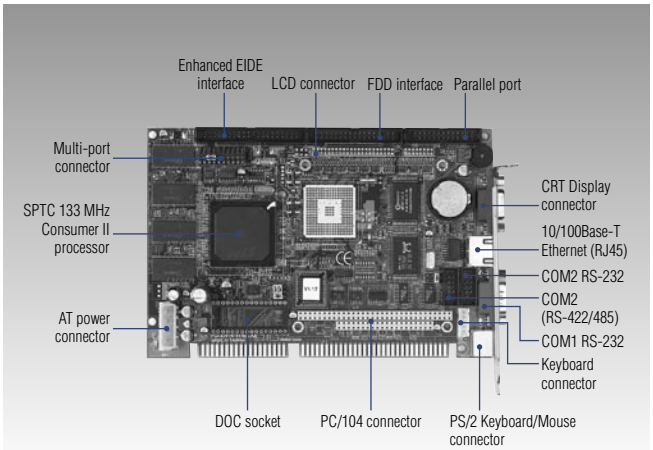
- **PCA-6104-0C2E** 4-slot ISA backplane
- **PCA-6106-0B2E** 6-slot ISA backplane
- **PCA-6108-0C2E** 8-slot ISA backplane
- **IPC-644-15ZE** 4-slot ISA chassis w/backplane & 150 W power supply
- **IPC-6806-20ZBE** 6-slot ISA chassis w/backplane & 200 W power supply
- **IPC-6606BP-25ZE** ISA chassis with 250 W power supply
- **IPC-6606BP-30ZE** ISA chassis with 300 W power supply
- **PCM-231A-00A1E** Audio module with Line-in, Line-out, Mic
- **1703100260** USB cable adapter (2.00 mm)
- **9689000042** IrDA adapter
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter

Ordering Information

Standard	CRT	LVDS	TTL	10/100	USB	RS-232	RS-232/422/485	LPT	GPIO	IrDA	CF	PC-104
PCA-6773-J0A1E	1	1	1	1	4	1	1	1	8-bit	115 kbps	Type I/II	1
PCA-6773-M0A1E	1	1	1	1	4	1	1	1	8-bit	115 kbps	Type I/II	1
PCA-6773-R0A1E	1	1	1	1	4	1	1	1	8-bit	115 kbps	Type I/II	1

PCA-6741

ISA Consumer II Slot-PC SBC, 133 MHz CPU/32 MB/VGA/LAN/DOC and PC/104



Features

- Low power fanless Consumer II
- Onboard 32 MB SDRAM
- 10/100Base-T Ethernet
- Supports DiskOnChip® 2000 SSD Solution
- Superior low power consumption, requires no CPU cooling fan

RoHS CE FCC

Specifications

General

- **CPU** Onboard low power STPC Consumer II 133 MHz
- **2nd Cache Memory** On processor
- **System Chipset** STPC® Consumer II embedded
- **BIOS** AWARD® 256 kbit Flash BIOS
- **System Memory** Onboard 32 MB SDRAM (optional 1 x SDRAM SODIMM, Max. 64 MB)
- **Power Management** APM
- **SSD** DiskOnChip® 2000 (optional CompactFlash® card)
- **Watch Dog Timer** 1 ~ 62 sec., System reset or IRQ11
- **Expansion Interface** 1 x 16-bit ISA slot, 1 x PC/104 connector
- **Battery** Lithium 3 V/196 mAH

I/O

- **I/O Interface** 1 x EIDE (PIO Mode 4), 1 x FDD, 1 x K/B, 1 x Mouse, PCA-6741F-0CA2: 1 x RS-232/422/485, 1 x RS-232; PCA-6741L-0CA2: 2 x RS-232; 1 x LPT
- **USB** N/A
- **Audio** N/A
- **IrDA** 115 kbps SIR, IrDA 1.0 compliant
- **GPIO** N/A
- **I/O Expansion** PC/104, ISA

Ethernet

- **Chipset** RTL™ 8139C
- **Speed** 10/100Base-T
- **Interface** 1 x RJ-45
- **Standard** IEEE 802.3u

Display

- **Chipset** Consumer II embedded
- **Memory Size** Supports 1/2/4 MB frame buffer with system memory
- **Resolution** CRT mode: 1280 x 1024 @ 8 bpp, 1024 x 768 @ 8 bpp, 800 x 600 @ 8 bpp
- **LCD Interface** N/A
- **LVDS Interface** N/A
- **TV-Out** N/A
- **Dual Independent Display** N/A

Mechanical and Environmental

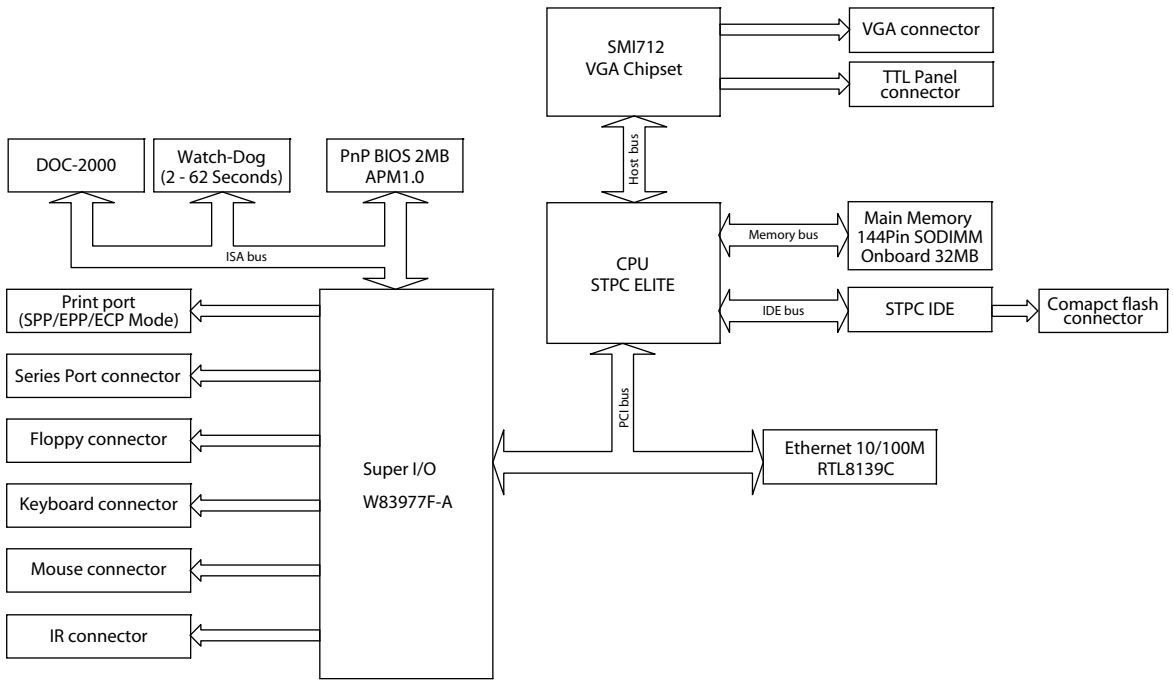
- **Dimensions (L x W)** 185 x 122 mm (7.3"x 4.8")
- **Weight** 0.27 Kg (weight of total package)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F), operation
- **Operating Humidity** 0% ~ 90% relative humidity, non-condensing

Power

- **Power Supply Voltage** +5 V ±5%
- **Power Consumption** Max: 5 V @ 1.50 A (Run Kpower in win98se, PCA-6741L-0CA2 without CF card)
  5 V @ 1.38 A (Run HCT4.0 in winnt, PCA-6741L-0CA2 without CF card)
  Typical: 5 V @ 1.31 A (PCA-6741L-0CA2 without CF card)

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCA-6741 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x E-IDE (HDD) Cable (600 mm)** (p/n:1701400601)
- **1 x FDD Cable (290 mm)** (p/n:1701340700)
- **1 x COM2 & Parallel Port Cable Kit** (p/n:1701260303)
- **1 x Mini Jumper** (p/n:1653300100)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

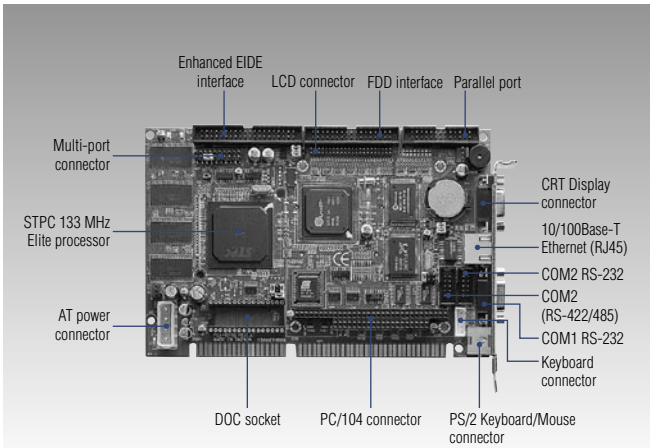
- **PCA-6104-0C2E** 4-slot ISA backplane
- **PCA-6106-0B2E** 6-slot ISA backplane
- **PCA-6108-0C2E** 8-slot ISA backplane
- **IPC-644-15ZE** 4-slot ISA chassis w/backplane & 150 W power supply
- **IPC-6806-20ZBE** 6-slot ISA chassis w/backplane & 200 W power supply
- **IPC-6606BP-25ZE** ISA chassis with 250 W power supply
- **IPC-6606BP-30ZE** ISA chassis with 300 W power supply
- **9689000042** IrDA adapter
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter

Ordering Information

Standard	CRT	10/100	USB	RS-232	RS-232/422/485	LPT	IrDA	CF	PC-104
PCA-6741F-0CA2E	1	1	--	1	1	1	115 kbps	optional	1
PCA-6741L-0CA2E	1	--	--	2	--	1	115 kbps	optional	--

PCA-6740

ISA Elite® Slot-PC SBC, with 133 MHz CPU/32 MB/VGA/LCD/LAN/DOC and PC/104



Features

- Low power fanless STPC Elite 133
- Onboard 32 MB SDRAM
- 10/100Base-T Ethernet
- Supports DiskOnChip® 2000 SSD Solution
- Superior low power consumption, requires no CPU cooling fan

RoHS CE FCC

Specifications

General

CPU	Onboard low power STPC Elite 133 MHz
2nd Cache Memory	On processor
System Chipset	STPC® Elite embedded
BIOS	AWARD® 256 kbit Flash BIOS
System Memory	On board 32 MB SDRAM (optional 1 x SDRAM SODIMM, Max. 64 MB)
Power Management	APM
SSD	DiskOnChip® 2000 (optional CompactFlash® card)
Watch Dog Timer	1 ~ 62 sec., System reset or IRQ11
Expansion Interface	1 x 16-bit ISA slot, 1 x PC/104 connector
Battery	Lithium 3 V/196 mAH

I/O

I/O Interface	1 x EIDE (PIO Mode 4), 1 x FDD, 1 x K/B, 1 x Mouse, 1 x LPT PCA-6740F-0CA2: 1 x RS-232/422/485, 1 x RS-232; PCA-6740L-0CA2: 2 x RS-232;
USB	N/A
Audio	N/A
IrDA	115 kbps SIR, IrDA 1.0 compliant
GPIO	N/A
I/O Expansion	PC/104, ISA

Ethernet

Chipset	RTL™ 8139C
Speed	10/100Base-T
Interface	1 x RJ-45
Standard	IEEE 802.3u

Built-in boot ROM

Display

Chipset	SMI Lynx 712
Memory Size	4 MB
Resolution	CRT mode: 1280 x 1024 @ 16 bpp (60 Hz), 1024 x 768 @ 16 bpp, 800 x 600 @ 16 bpp LCD mode: 1280 x 1024 @ 16 bpp (60 Hz) 1024 x 768 @ 16 bpp, 800 x 600 @ 16 bpp
LCD Interface	Up to 36-bit TTL for TFT LCD
LVDS Interface	N/A
TV-Out	N/A
Dual Independent Display	N/A

Mechanical and Environmental

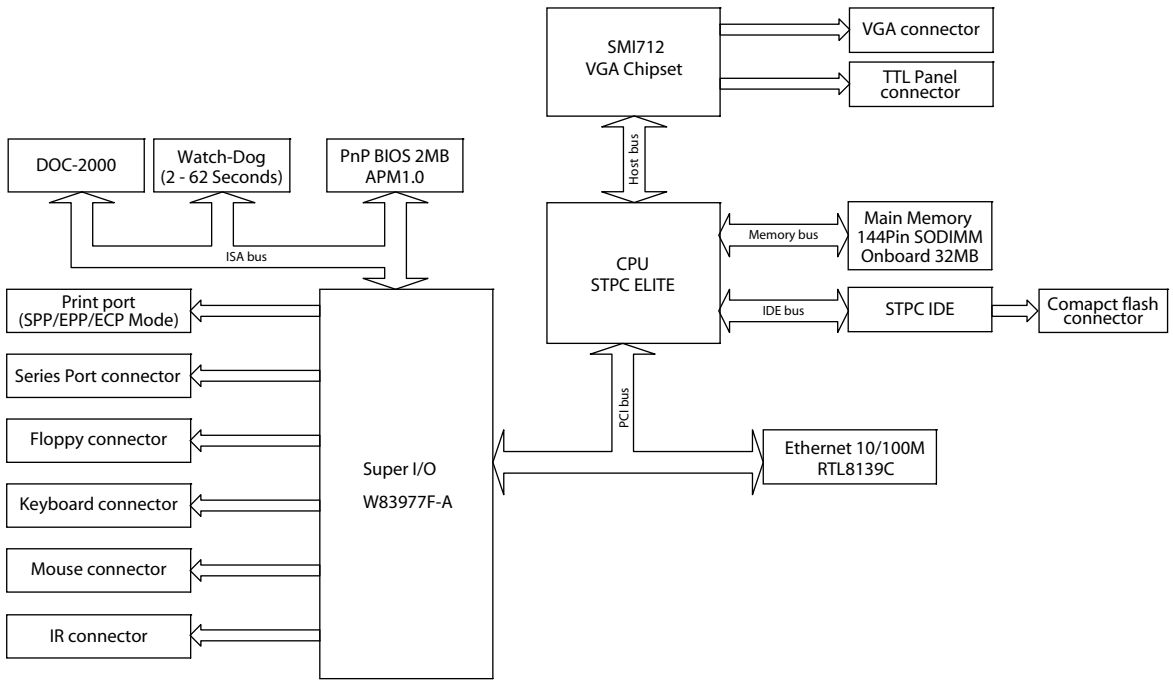
Dimension (L x W)	185 x 122 mm (7.3" x 4.8")
Weight	0.27 kg (weight of total package)
Operating Temperature	0 ~ 60° C (32 ~ 140° F), operation
Operating Humidity	0% ~ 90% relative humidity, non-condensing

Power

Power Supply Voltage	+5 V ± 5%
Power Consumption	Max : 5 V @ 2 A Typical : 5 V @ 1.62 A

All product specifications are subject to change without notice

Board Diagram



Packing List

- **1 x PCA-6740 SBC**
- **1 x Y Cable for PS/2 Keyboard, PS/2 Mouse** (p/n:1700060202)
- **1 x EIDE (HDD) Cable (600 mm)** (p/n:1701400601)
- **1 x FDD Cable (290 mm)** (p/n:1701340700)
- **1 x COM2 & Parallel Port Cable Kit** (p/n:1701260303)
- **1 x Mini Jumper** (p/n:1653300100)
- **1 x Startup Manual**
- **1 x Utility CD**

Optional Accessories

- **PCA-6104-0C2E** 4-slot ISA backplane
- **PCA-6106-0B2E** 6-slot ISA backplane
- **PCA-6108-0C2E** 8-slot ISA backplane
- **IPC-644-15ZE** 4-slot ISA chassis w/backplane & 150 W power supply
- **IPC-6806-20ZBE** 6-slot ISA chassis w/backplane & 200 W power supply
- **IPC-6606BP-25ZE** ISA chassis with 250 W power supply
- **IPC-6606BP-30ZE** ISA chassis with 300 W power supply
- **9689000042** IrDA adapter
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter

Ordering Information

Standard	CRT	TTL	10/100	USB	RS-232	RS-232/422/485	LPT	IrDA	CF	PC-104
PCA-6740F-0CA2E	1	1	1	--	1	1	1	115 kbps	optional	1
PCA-6740L-0CA2E	1	1	--	--	2	--	1	115 kbps	optional	--

IPC-644

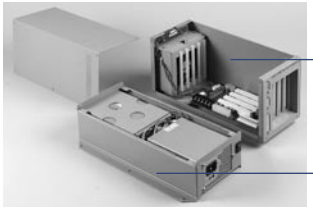
4-slot Ultra-Compact Wallmount/Desktop Chassis with 150 W ATX Power Supply

Features

- Ultra-compact wallmount/desktop IPC chassis
- Supports up to 4 half-sized cards
- Supports one 3.5" FDD and one internal 3.5" HDD
- Power switch on the rear plate
- One 53 CFM cooling fan
- Equipped with 150 W ATX power supply
- Easy-to-replace fan filter
- Reserved I/O port openings (two 9-pin and one 25-pin) on the rear plate

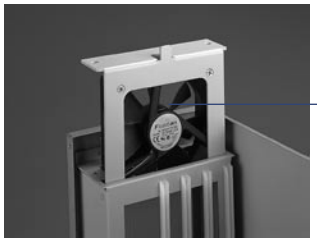
Specifications

Drive Bay		Front-accessible	Internal
	3.5"	1	1
Cooling	Fan	1 (53 CFM)	
	Air Filter	Yes	
Miscellaneous	Control	Power on/off switch and system reset button	
	LED Indicators	Power status and HDD activity	
	Rear Panel	Reserved two 9-pin COM and one 25-pin printer port openings	
Environment		Operating	Non-operating
	Temperature	0 ~ 40° C (32 ~ 104° F)	-20 ~ 60° C (-4 ~ 140° F)
	Humidity	10 ~ 85 % @ 40° C, non-condensing	10 ~ 95 % @ 40° C, non-condensing
	Vibration (5-500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	30 G
	Acoustic Noise	Less than 52 dB sound pressure at 5 ~ 28° (41 ~ 82° F)	
	Altitude	0 to 3,048 m (0 ~ 10,000 ft)	
Physical Characteristics	Dimensions (W x H x D)	135 x 209 x 305 mm (5.3" x 8.2" x 12")	
	Weight	5.0 kg (11.4 lb)	



Upper cage to hold 4 half-sized cards

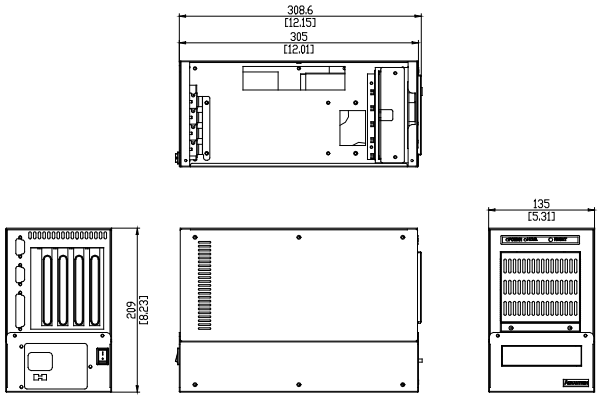
Lower deck for one 3.5" FDD, one internal 3.5" HDD & power supply



Easy-to-maintain cooling fan

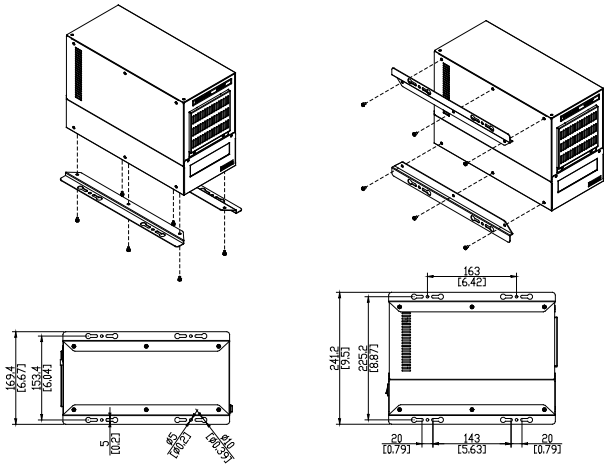
All product specifications are subject to change without notice

Dimension Diagram



Unit: mm (inch)

Installation



Unit: mm (inch)

Power Supply Options

Part Number	Specifications					
	Watt	Input	Output	Mini-load	Safety	MTBF
1757000170G (ATX, PFC)	150 W	AC 115/230 V (selectable)	+5 V @ 15 A, +3.3 V @ 17 A, +12 V @ 8 A, -12 V @ 0.8 A, -5 V @ 0.5 A, +5 Vsb @ 2 A	+5 V @ 1 A +3.3 V @ 0.5 A, +12 V @ 2 A, +5 Vsb @ 0.1 A	UL/ TUV/CB	100,000 hrs @ 25° C

Passive Backplane Options

Part Number	Slot	Segment
PCA-6104P4-0B2E	4 PCI	single
PCA-6104-0C2E	4 ISA	single

Accessories

Part Number	Description
1999806020	Fan filter 100 x 90 x 3 mm

Ordering Information

Part Number	Power Supply	Backplane	Regulation	Switch
IPC-644BP-15ZE	1757000170G	Without	CE	AT
IPC-644-15ZE	1757000170G	PCA-6104-0C2E	CE	AT
IPC-644P4-15ZE	1757000170G	PCA-6104P4-0B2E	CE	AT

IPC-6806

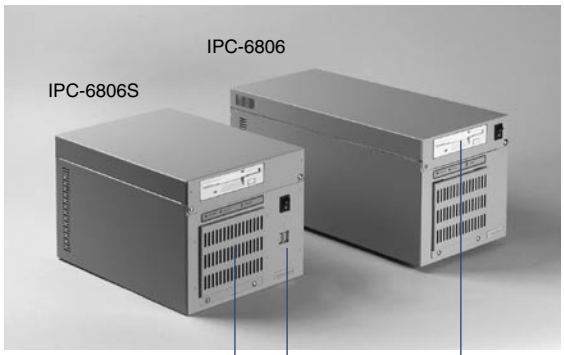
6-slot Desktop/Wallmount Chassis with 1U Power Supply

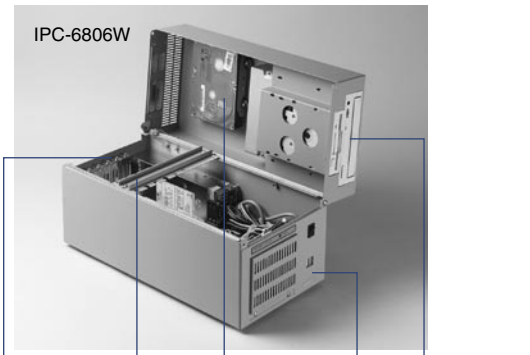
Features

- Three models with different sizes to support various industrial applications
- Supports 6-slot backplane
- Supports front USB interface (IPC-6806S and IPC-6806W)
- IPC-6806W is especially equipped with a front-mounted 5.25" drive bay for a CD-ROM
- Streamlined filtered airflow
- Versatile 6-slot backplane options

Specifications

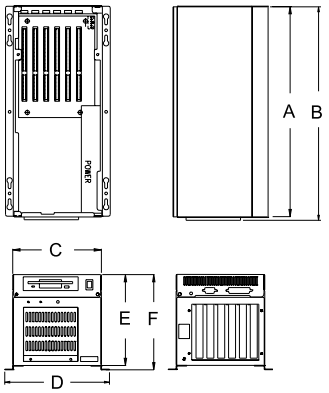
Cooling	Fan	One (58 CFM for IPC-6806W; 53 CFM for IPC-6806 and IPC-6806S)	
	Air Filter	Yes	
I/O Interface	USB	IPC-6806W and IPC-6806S only	
Miscellaneous	Control	Power on/off switch and system reset switch	
	Indicators	Power on/off and HDD activity	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40° C (32 ~ 104° F)	-20 ~ 60° C (-4 ~ 140° F)
	Humidity	10 ~ 85 % @ 40° C, non-condensing	10 ~ 95% @ 40° C, non-condensing
	Vibration (5 ~ 500 Hz)	0.5 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	30 G
	Acoustic Noise	Less than 52 dB at 5 ~ 28° C (41 ~ 82° F)	
	Altitude	0 to 3,048 m (0 ~ 10,000 ft)	





All product specifications are subject to change without notice

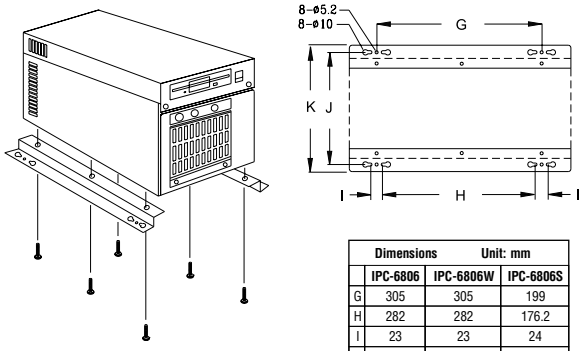
Dimension Diagram



Dimensions			Unit: mm
	IPC-6806S	IPC-6806	IPC-6806W
A	285	393	393
B	290	398	398
C	191	166	198
D	221	196	228
E	170	170	213
F	178	178	221

Unit: mm (inch)

Installation



Dimensions			Unit: mm
	IPC-6806	IPC-6806W	IPC-6806S
G	305	305	199
H	282	282	176.2
I	23	23	24
J	180.6	212.6	205.6
K	196	228	221

Unit: mm (inch)

Selection Guide

Part Number	IPC-6806SB-15ZBE	IPC-6806BP-20ZBE	IPC-6806WB-30ZBE
Drive Bay	3.5" FDD x 1, 3.5" HDD x 1	3.5" FDD x 1, 3.5" HDD x 1	5.25" CD-ROM x 1, 3.5" FDD x 1, 3.5" HDD x 1
Power Supply	150 W PFC	200 W PFC	300 W PFC
Backplane	PCA-6106-0B2E, PCA-6105P5-0B2E (for half-sized cards only)	PCA-6106-0B2E, PCA-6105P5-0B2E	PCA-6106-0B2E, PCA-6105P5-0B2E
Dimensions (W x H x D)	191 x 170 x 285 mm (7.5" x 6.7" x 11.2")	166 x 170 x 393 mm (6.5" x 6.7" x 15.4")	198 x 213 x 393 mm (7.8" x 8.4" x 15.4")
Weight	6 kg (13.2 lb)	7.2 kg (15.9 lb)	8 kg (17.6 lb)

Power supply Options

Part Number	Specifications					
	Watt	Input	Output	Mini-load	Safety	MTBF
1757000209G (IPC-6806S)	150 W ATX	AC 100 ~ 240 V (full-range)	+5 V @ 14 A, +3.3 V @ 10 A +12 V @ 6 A, -12 V @ 0.8 A -5 V @ 0.5 A, +5 Vsb @ 1.5 A	+5 V @ 2 A, +12 V @ 1 A -5 V @ 0.1 A, -12 V @ 0.1 A +3.3 V @ 1 A, +5 V @ 0.1 A	UL/TUV/CB/CCC	84,000 hours @ 25° C
OP-20PZE (IPC-6806)	200 W AT	AC 100 ~ 240 V (full-range)	+5 V @ 16 A, +12 V @ 9 A, -12 V @ 0.7 A, -5 V @ 0.2 A	+5 V @ 2 A, +12 V @ 1 A -5 V @ 0.1 A, -12 V @ 0.1 A	UL/TUV/CB/CCC	84,000 hours @ 25° C
1757000160G (IPC-6806W)	300 W ATX	AC 100 ~ 240 V (full-range)	+5 V @ 25 A, +3.3 V @ 14 A +12 V @ 16 A, -12 V @ 1 A -5 V @ 0.5 A, +5 Vsb @ 2 A	+5 V @ 3 A, +12 V @ 2 A -5V @ 0.05 A, -12 V @ 0.05 A +3.3 V @ 1 A, +5 Vsb @ 0.1 A	UL/TUV/CB/CCC	100,000 hours @ 25° C

Passive Backplane Options

Part Number	Slots	Segment
PCA-6106-0B2E	6 ISA	Single
PCA-6105P5-0B2E	4 PCI, 1 CPU-PCI	Single

Ordering Information

Part Number	Power Supply	Backplane	Regulation	Switch
IPC-6806SB-15ZBE	1757000209G	-	CE	AT
IPC-6806BP-20ZBE	OP-20PZE	-	CE	AT
IPC-6806-20ZBE	OP-20PZE	PCA-6106-0B2E	CE	AT
IPC-6806WB-30ZBE	1757000160G	-	CE	AT

IPC-6606

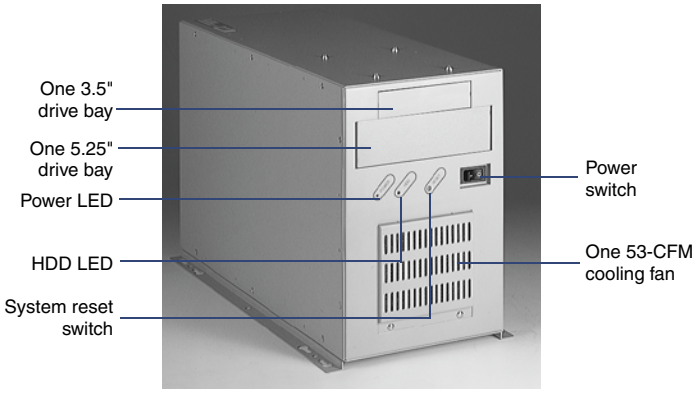
6-slot Desktop/Wallmount Chassis with PS/2 Power Supply

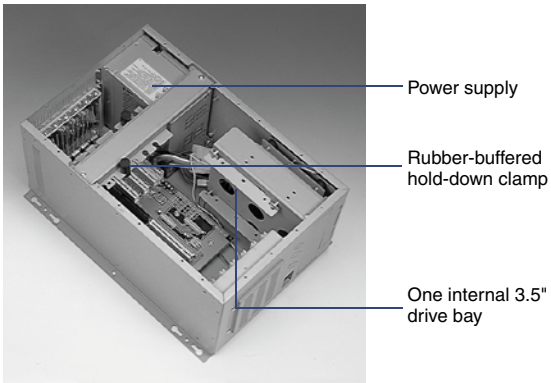
Features

- Cost-effective wallmount/desktop IPC chassis
- Bidirectional options to mount the chassis on the wall or workbench
- Accepts up to 5 ISA/PCI full-length peripheral cards
- One 5.25" and one 3.5" front-accessible drive bays, plus one internal 3.5" drive bay
- One 53-CFM cooling fan with air filter
- 250 W and 300 W ATX power supply options

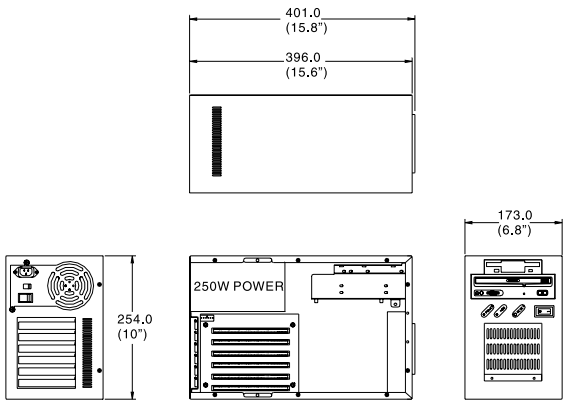
Specifications

Drive Bay		Front-accessible	Internal
	3.5"	1	1
	5.25"	1	-
Cooling	Fan	1 (53 CFM)	
	Air Filter	Yes	
Miscellaneous	Control	Front panel reset switch, rear panel power supply	
	Indicator	Power on/off and HDD activity	
Environment	Temperature	0 ~ 40° C (32 ~ 104 °F), operating	
	Humidity	10 ~ 85 % @ 40° C, non-condensing	
Physical Characteristics	Dimensions (W x H x D)	173 x 254 x 396 mm (6.8" x 10" x 15.6")	
	Weight	9 kg (19.8 lb)	



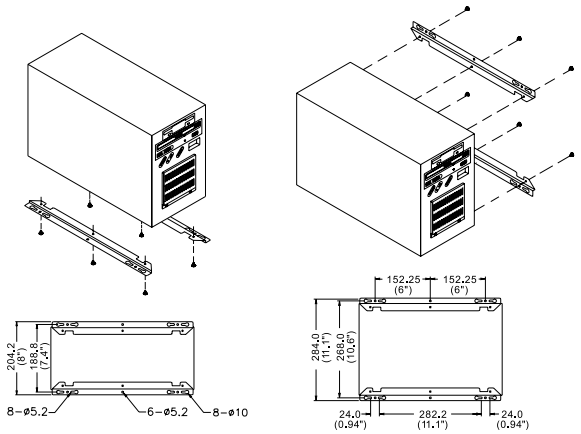


Dimension Diagram



Unit: mm (inch)

Installation



Bidirectional mounting

Unit: mm (inch)

Power Supply Options

Part Number	Specifications					
	Watt	Input	Output	Mini-load	Safety	MTBF
PS-250ATX-ZE (ATX, PFC)	250 W	AC 115/230 V (selectable)	+5 V @ 27 A +3.3 V @ 20 A +12 V @ 13 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.5 A +12 V @ 0.3 A	UL/TUV/CB/CCC	100,000 hours @ 25° C
PS-300ATX-ZBE (ATX PFC)	300 W	AC 100 ~ 240 V (full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/TUV/CB/CCC	100,000 hours @ 25° C

Passive Backplane Options

Part Number	Slot	Segment
PCA-6106-0B2E	6 ISA	Single
PCA-6105P5-0B2E	5 PCI	Single

Accessories

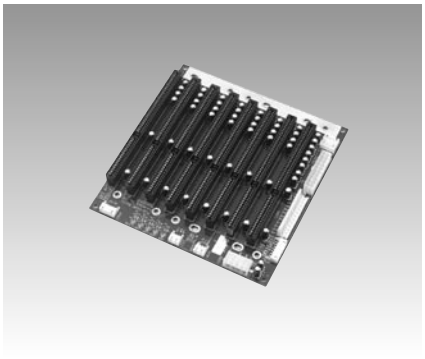
Part Number	Description
1999806020	Fan filter 100 x 90 x 3 mm

Ordering Information

Part Number	Power Supply	Backplane	Regulation	Switch
IPC-6606BP-00XE	Without power supply	-	None	AT/ATX
IPC-6606BP-25ZE	PS-250ATX-ZE	-	CE	AT
IPC-6606BP-30ZE	PS-300ATX-ZBE	-	CE	ATX
IPC-6606P5-30ZE	PS-300ATX-ZBE	PCA-6105P5-0B2E	CE	ATX

PCA-6108
PCA-6106
PCA-6104
PCA-6105

8-slot ISA-bus Passive Backplane
6-slot ISA-bus Passive Backplane
4-slot ISA/PCI-bus Passive Backplane
5-slot PCI-bus Passive Backplane

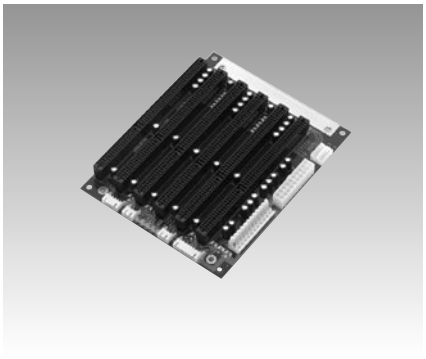


PCA-6108E-0C2E

- Segments: 1
- Slots: 8 ISA
- Size: 180 x 190 mm (7.09" x 7.48")
- Ordering Information: PCA-6108E-0C2E

Ordering Information

- **1 x PCA-6108E-0C2E** 8-slot ISA backplane

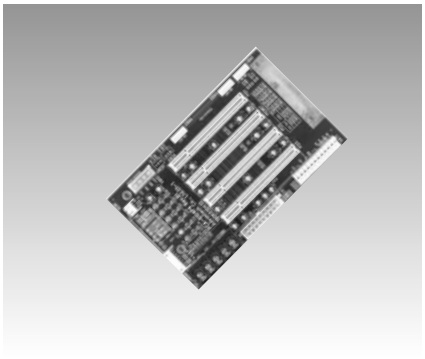


PCA-6106-0B2E

- Segments: 1
- Slots: 6 ISA
- Size: 142 x 175 mm (5.59" x 6.89")
- Ordering Information: PCA-6106-0B2E

Ordering Information

- **1 x PCA-6106-0B2E** 6-slot ISA backplane

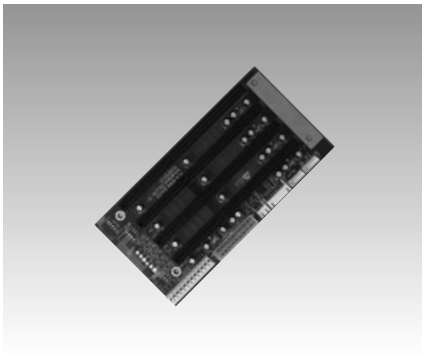


PCA-6104P4-0B2E

- Segments: 1
- Slots: 4 PCI
- Size: 110 x 180 mm (4.3" x 7")
- Chassis: IPC-644
- Ordering Information: PCA-6104P4-0B2E

Ordering Information

- **1 x PCA-6104P4-0B2E** 4-slot PCI backplane

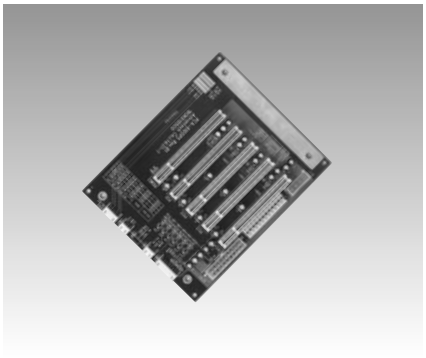


PCA-6104-0C2E

- Segments: 1
- Slots: 4 ISA
- Size: 94.7 x 186 mm (3.7" x 7.3")
- Ordering Information: PCA-6104-0C2E

Ordering Information

- **1 x PCA-6104-0C2E** 4-slot ISA backplane



PCA-6105P5-0B2E

- Segments: 1
- Slots: 5 PCI
- Size: 143 x 155 mm (5.6" x 6")
- Chassis: IPC-6806, IPC-6606, IPC-6006
- Ordering Information: PCA-6105P5-0B2E

Ordering Information

- **1 x PCA-6105P5-0B2E** 5-slot PCI backplane

All product specifications are subject to change without notice